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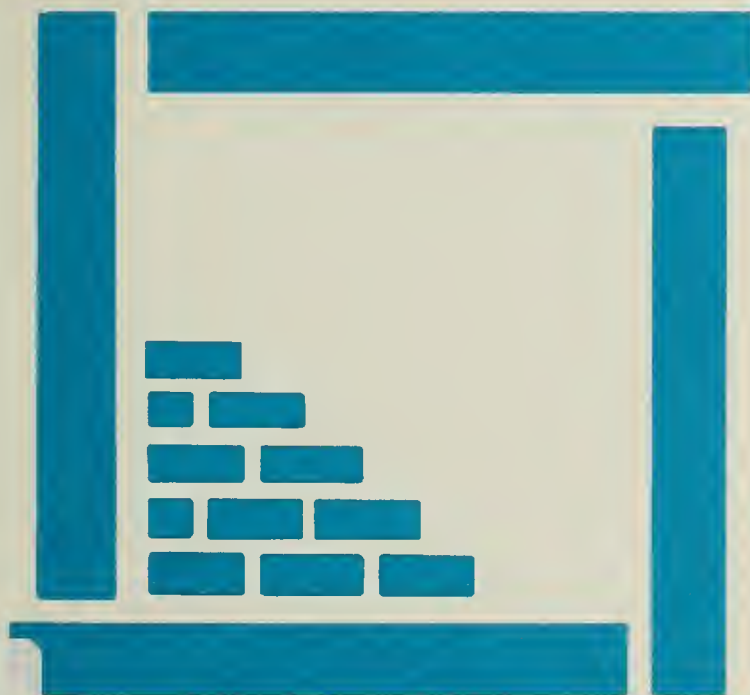
Census of Construction Industries

CC87-A-6

GEOGRAPHIC AREA SERIES

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The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. **Barry A. Rappaport**, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of **A. William Visnansky**, Chief, Census Operations Branch, with primary staff assistance by **Juliana Van Berkum**, **Barbara J. Hadden**, **Edward R. Glover**, **Susan L. Hostetter**, **Shirley M. Baker**, and **Carolyn J. Stone**. Under the direction of **Jesse Pollock**, **Edward K. Ricketts** and **Dennis K. Duke** developed the sampling plans and variance and estimation specifications.

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If you have any questions concerning the statistics in this report, call (301) 763-7546.

1987

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Tennessee

Issued July 1990



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PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the—

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan

areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Construction Reports* (building permits, housing starts, and value of new construction put in place), *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property

into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.¹ This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity that follow:

1. **Building construction by general contractors or by operative builders**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
2. **Heavy construction general contractors**—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
3. **Construction by other special trade contractors**—These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry

classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C.; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

Employer Companies

Developing the sampling frame for employer companies—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for single-establishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

Selecting the employer sample—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial four-digit SIC code, in the same State, in the same metropolitan

area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

Estimation procedures for 1987 and 1982 data—

Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_c = \frac{\sum_{i=1}^{n_c} x_i}{n_c}$$

where: x'_c is the simple unbiased estimate of a characteristic for a publication cell.

x_i is the reported value of a characteristic for an individual establishment in the publication cell.

p_i is the selection probability of that firm.

n_c is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts", referred to in the tables as "dollar value of business done", was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all

revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.

To discuss a special tabulation before submitting specifications, call 301-763-7546.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

*	Sampling error exceeds 40 percent.
**	Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
-	Represents zero.
†	Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
††	Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
(W)	Greater than zero but less than 1 percent.
(X)	Not applicable.
n.s.k.	Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By Industry	By employment size	By size class of the dollar value of business done	By type, class, ownership, kind of business, and location of construction ¹	By CMSA, PMSA, and MSA ²
Assets and depreciation (gross book value):						
Beginning of year—buildings, machinery and equipment.....	5					
End of year—total.....	3, 5	3	7	8		
End of year—buildings, machinery and equipment.....	5					
Depreciation charges during year—buildings, machinery and equipment.....	5					
Capital expenditures:						
Total capital expenditures.....	3, 5	3	7	8		12
New buildings—machinery and equipment.....	5					
Used buildings—machinery and equipment.....	5					
Communication services, payments for.....	4					
Employees:						
All employees—average number.....	3	3	7	8		12
Construction workers—average number.....	3, 4, 10	3, 10				
Other employees—average number.....	4					
Employer costs for fringe benefits—legally required and voluntary expenditures.....	4					
Establishments:						
Number in business at end of year.....	4					
Number in business during year:						
All.....		1		2		
With payroll.....	3, 4, 6, 10	1, 3, 10	7	2, 8		12
Without payroll.....		1		2		
Hours—construction workers:						
Total.....	3, 4, 10	3, 10	7	8		
Quarterly.....	4, 10	10				
Inventories.....	6					
Materials, components, supplies, and fuels—payments for.....	3, 4	3	7	8		12
Payroll:						
First quarter, all employees.....	4					
Annual:						
All employees.....	3, 4	3	7	8		12
Construction workers.....	3, 4	3				
Other employees.....	4					
Power, fuels, and lubricants—payments for.....	4					
Proprietors and working partners:						
All establishments.....		1		2		
Establishments with payroll.....	4	1		2		
Establishments without payroll.....		1		2		
Ratios, industry.....	11	11				
Receipts:						
Dollar value of business done:						
All establishments.....		1		2		
Establishments with payroll.....	4	1	7	2, 8		
Establishments without payroll.....		1		2		
Value of construction work, total.....	3, 4, 6	3	7	8	4, 9,	12
For work subcontracted in from others.....	4					
Other business receipts.....	4					
Land receipts ³	4					
Net value of construction work.....	3, 4	3	7	8		12
Value added.....	3, 4	3	7	8		12
Rental payments:						
Total.....	3, 4	3	7	8		
For machinery and equipment.....	4					
For buildings.....	4					
Repairs to buildings and other structures.....	4					
Repairs to machinery and equipment.....	4					
Subcontract work to others, payments for.....	3, 4	3	7	8	12	

Note: Data for 1982 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work. Ownership—private or government owned.

²CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan Statistical area.

³Land receipts are shown separately for SIC's 1531 and 6552 only.



* The Midwest Region was designated as the North Central Region until June 1984.



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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Alabama. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 30,062 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$8.5 billion in total value of business done.

Most of the 30,062 construction establishments were small. Of the total, 22,662 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,118 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 79 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$7.5 billion on total dollar value of business done. Of this amount, \$7.3 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.3 billion, leaving net value of construction work of \$5.0 billion. In addition, these establishments paid out \$2.4 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$2.9 billion. (See Introduction and appendixes for explanation of terms.)

There were 7,400 establishments with total employment averaging 84,812 during the year. Total payroll for 1987 was \$1.6 billion. Total hours worked by construction workers during the year were 119 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 22,662 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$1.1 billion. Most of these establishments, about 75 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

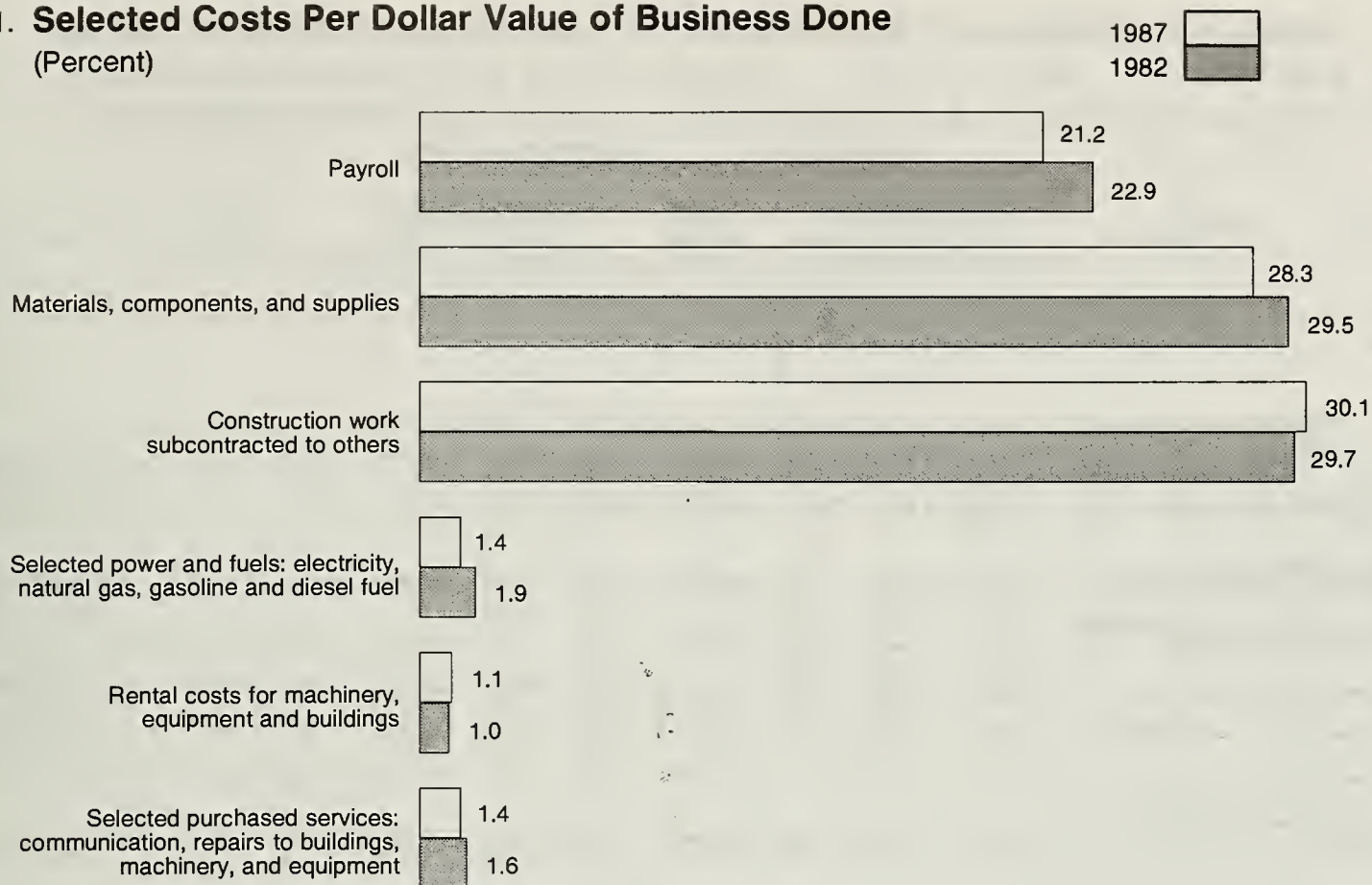


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

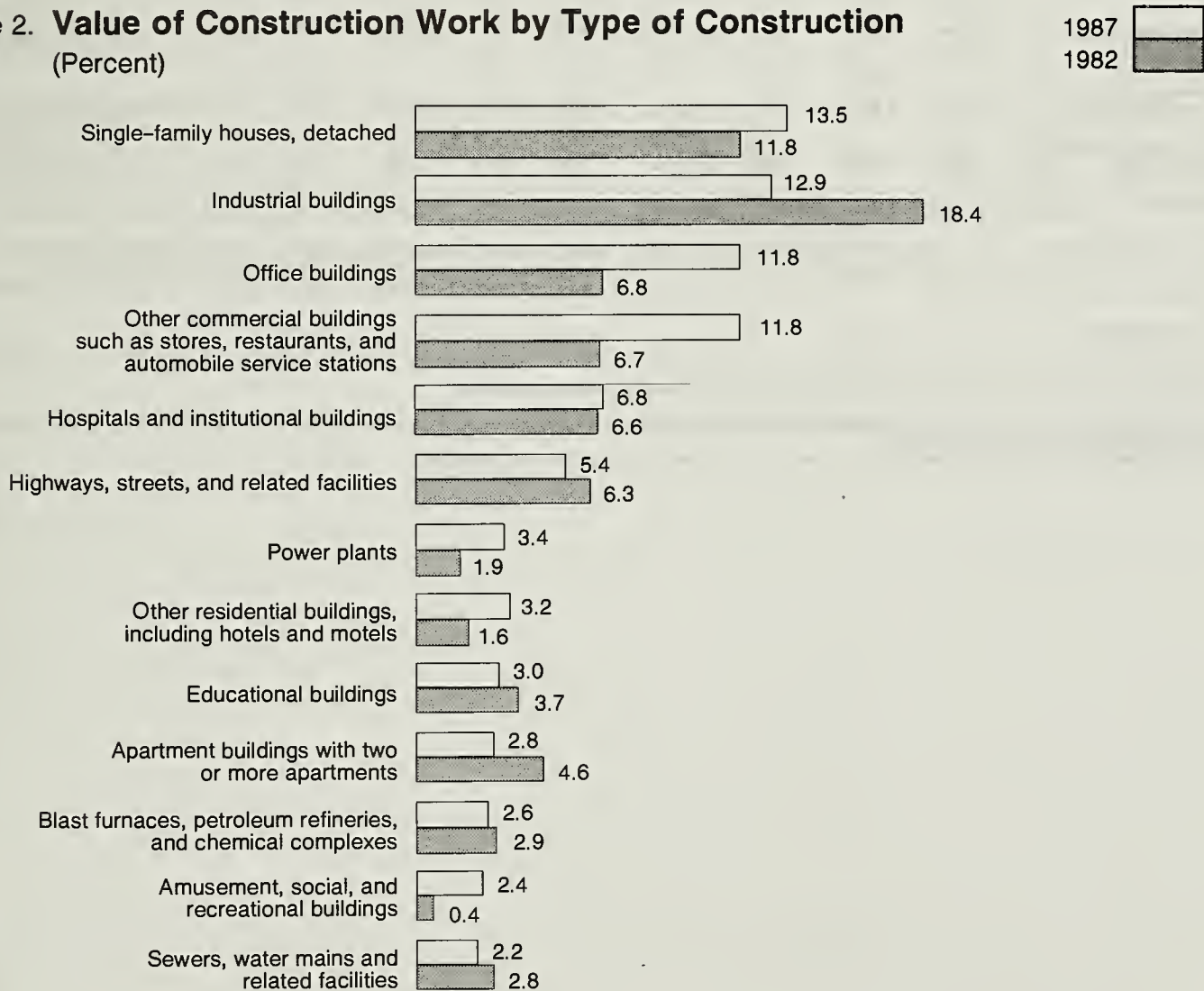


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers -----	30 062	24 200	84 812	8 542 039	22 862	22 294	1 051 902	7 400	1 906	84 812	7 490 137	1	1
15, 16, 17	Conastruction Industries -----	29 339	23 615	84 478	8 350 563	22 057	21 755	904 277	7 282	1 860	84 476	7 446 286	1	1
15	Building construction—General contractors and operative builders ----	6 984	4 782	(D)	4 268 500	4 712	4 364	423 385	2 272	418	(D)	3 845 115	(D)	2
16	Heavy construction other than building construction— contractors -----	999	544	16 069	1 485 115	396	401	27 635	603	143	16 069	1 457 480	2	1
17	Special trade contractors -----	21 356	18 289	(D)	2 596 949	16 949	16 990	453 258	4 407	1 299	(D)	2 143 691	(D)	1
1711	Plumbing, heating, and air-conditioning --	2 586	1 785	9 187	661 877	1 519	1 524	61 212	1 067	261	9 187	600 665	2	2
1731	Electrical work -----	1 702	1 240	6 813	442 178	1 102	1 104	28 694	600	136	6 813	413 484	3	3
6552	Land subdividers and developers, n.e.c.² -----	712	577	323	191 466	605	539	147 625	107	38	323	43 841	16	16
	1982													
	Construction Industries and land subdividers and developers -----	18 899	12 895	67 397	4 926 895	10 917	10 629	437 510	5 782	2 066	67 397	4 489 385	1	1
15, 16, 17	Conastruction Industries -----	16 314	12 508	(D)	4 840 360	10 607	10 447	369 751	5 707	2 061	(D)	4 470 609	(D)	1
15	Building construction—General contractors and operative builders ----	4 054	2 694	24 446	2 330 373	2 459	2 278	170 702	1 595	416	24 446	2 159 671	2	1
16	Heavy construction other than building construction— contractors -----	819	319	(D)	1 024 523	189	192	12 344	430	127	(D)	1 012 179	(D)	1
17	Special trade contractors -----	11 641	9 495	29 271	1 485 464	7 959	7 977	186 705	3 682	1 518	29 271	1 298 759	2	2
1711	Plumbing, heating, and air-conditioning --	1 578	1 067	6 020	358 923	759	765	28 771	819	302	6 020	330 152	4	3
1731	Electrical work -----	924	578	4 487	220 907	474	472	11 637	450	106	4 487	209 270	5	4
6552	Land subdividers and developers, n.e.c.² -----	378	183	(D)	(S)	310	182	67 759	66	1	(D)	(S)	(D)	(S)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	30 062	24 200	84 812	8 542 039	22 662	22 294	1 051 902	7 400	1 906	84 812	7 490 137	1	1
\$10,000,000 or more	79	6	24 645	(D)	2	2	(D)	77	4	24 645	3 178 078	(W)	1
\$5,000,000 to \$9,999,999	141	11	9 831	954 389	4	4	23 533	137	7	9 831	930 856	1	4
\$2,500,000 to \$4,999,999	257	32	9 722	892 994	11	9	34 873	246	*23	9 722	858 121	2	5
\$1,000,000 to \$2,499,999	733	75	13 110	1 136 942	63	44	88 065	670	31	13 110	1 048 877	3	5
\$500,000 to \$999,999	1 131	270	9 523	774 794	179	140	121 282	952	130	9 523	653 512	5	5
\$250,000 to \$499,999	1 545	675	7 315	546 462	408	339	139 901	1 137	336	7 315	406 561	6	6
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	1 396	1 320	211 051	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	2 131	2 091	149 479	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	2 879	2 850	102 237	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000	16 026	15 601	(S)	(S)	15 589	15 495	124 553	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	5 085	5 064	81 155	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	3 886	3 865	28 171	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	2 803	2 792	10 231	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	3 815	3 774	4 996	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	16 699	12 695	67 397	4 926 895	10 917	10 629	437 510	5 782	2 066	67 397	4 489 385	1	1
\$10,000,000 or more	53	4	18 324	(D)	2	2	(D)	51	2	18 324	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	85	11	6 216	(D)	2	-	(D)	83	11	6 216	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	145	23	7 010	2 974 594	10	17	82 519	135	6	7 010	2 892 075	(W)	(W)
\$1,000,000 to \$2,499,999	429	44	10 259	674 058	24	21	39 162	405	23	10 259	634 896	3	4
\$500,000 to \$999,999	605	122	8 154	438 103	47	35	31 693	558	87	8 154	406 410	5	6
\$250,000 to \$499,999	839	231	6 027	288 975	120	100	41 127	719	131	6 027	247 848	7	6
\$100,000 to \$249,999	1 737	902	6 111	275 119	501	427	74 061	1 236	475	6 111	201 058	7	5
\$50,000 to \$99,999	1 857	1 367	2 660	131 554	877	831	60 273	980	536	2 660	71 281	8	6
\$25,000 to \$49,999	2 061	1 670	1 548	72 550	1 354	1 316	46 998	707	354	1 548	25 552	9	7
Less than \$25,000	8 886	8 319	1 086	71 941	7 980	7 880	61 677	906	439	1 086	10 264	7	7
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	2 556	2 530	39 444	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 230	2 203	15 127	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	2 040	2 009	5 952	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	1 154	1 138	1 154	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and land subdividers and developers -----	7 400	84 812	69 395	1 588 642	1 207 030	119 141	7 261 360	5 005 363
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	1 271	5 816	4 579	71 482	49 980	6 613	497 097	352 132
1522	Other residential buildings-----	69	532	409	8 829	5 923	612	85 780	45 097
1531	Operative builders -----	327	(D)	(D)	38 941	(D)	1 521	359 331	240 892
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	109	8 758	7 977	233 218	217 960	14 249	584 147	(D)
1542	Nonresidential buildings, n.e.c.-----	496	13 075	10 299	255 910	166 575	17 344	2 225 696	893 998
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	128	3 587	3 012	69 090	50 621	5 925	371 534	289 893
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	13	530	461	11 017	8 602	943	57 804	45 436
1623	Water, sewer, and utility lines -----	182	3 519	3 020	60 451	48 195	6 188	229 765	204 303
1629	Heavy construction, n.e.c.-----	280	8 433	6 867	193 584	153 615	12 928	727 367	471 862
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	1 067	9 187	7 282	171 249	126 535	12 977	596 364	556 462
1721	Painting and paper hanging -----	356	2 277	1 977	34 396	27 559	3 064	103 009	96 676
1731	Electrical work -----	600	6 813	5 572	129 211	98 862	10 259	401 661	382 197
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	336	3 422	3 186	37 767	32 977	4 468	103 130	95 607
1742	Plastering, drywall, and insulation work -----	224	3 051	2 592	60 200	48 241	4 645	189 809	176 535
1743	Terrazzo, tile, marble, and mosaic work-----	59	409	327	7 073	4 688	609	20 931	20 269
175	Carpentry and floor work:								
1751	Carpentry -----	381	1 144	983	13 027	10 662	1 624	42 502	38 593
1752	Floor laying and other floor work-----	118	(D)	(D)	(D)	(D)	572	33 172	30 498
1761	Roofing, siding, and sheet metal work -----	315	2 631	2 175	38 051	26 600	3 012	141 776	135 863
1771	Concrete work -----	244	2 275	1 950	34 058	27 378	3 001	117 493	109 656
1781	Water well drilling -----	38	146	118	1 657	1 360	217	7 710	7 533
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	72	799	672	13 438	11 016	964	35 511	33 597
1793	Glass and glazing work -----	86	643	468	11 627	8 058	818	47 952	46 543
1794	Excavation work -----	123	1 004	788	17 545	12 456	1 418	65 947	(D)
1795	Wrecking and demolition work -----	6	95	82	(D)	905	152	4 437	(D)
1796	Installing building equipment, n.e.c.-----	61	1 239	1 079	27 536	21 658	1 735	68 409	64 233
1799	Special trade contractors, n.e.c. -----	321	2 527	2 107	35 701	27 617	3 172	118 173	110 352
6552	Land subdividers and developers, n.e.c.-----	107	323	53	5 197	769	98	24 842	14 023

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
2 946 167	2 225 362	2 255 997	83 345	128 753	896 381	67 397	4 374 981	1 725 329	1	1	5	15, 16, 17
												15
177 006 24 498	187 629 21 745	144 964 40 683	3 255 758	5 636 *1 019	50 661 6 226	5 094 1 265	301 196 138 306	104 771 40 531	6 13	7 11	18 42	152 1521 1522
(D)	155 133	118 439	1 269	(D)	(D)	1 445	126 446	29 989	(D)	13	(D)	1531
321 037 450 271	(D) 459 356	(D) 1 331 698	7 422 13 705	4 265 22 126	22 323 106 440	8 429 8 213	629 783 929 748	244 421 171 836	2 2	(D) 3	25 6	154 1541 1542
												16
143 253	157 630	81 640	9 730	19 852	153 974	2 907	227 213	108 194	4	2	6	1611
22 516 133 635 365 702	23 125 71 471 (D)	12 368 25 462 255 505	774 9 141 8 984	1 222 10 038 16 997	15 176 116 238 128 505	1 518 3 147 5 815	102 033 145 801 499 235	38 647 74 374 218 764	(W) 4 3	(W) 5 2	16 18 27	162 1622 1623 1629
												17
299 431	261 331	39 902	7 985	11 143	68 900	6 020	325 998	150 337	2	2	11	1711
70 047	27 611	6 332	2 012	*5 232	19 818	1 719	51 553	36 169	8	12	55	1721
231 415	162 604	19 464	3 628	7 290	42 136	4 487	204 512	106 264	3	3	12	1731
58 742 109 099 11 873	37 059 70 699 (D)	7 522 13 274 662	1 775 1 778 198	1 134 3 727 280	8 378 13 445 2 523	1 465 2 194 242	27 653 91 589 10 209	16 363 46 597 5 421	5 4 15	6 4 13	36 6 26	174 1741 1742 1743
23 135 (D)	16 303 (D)	3 909 *2 673	267 203	334 *249	2 478 2 286	1 056 359	30 495 18 609	16 510 8 768	10 (D)	12 16	23 53	175 1751 1752
81 933	54 706	5 913	1 033	2 959	17 405	3 289	117 551	63 012	6	6	28	1761
69 076	41 311	7 837	2 390	2 976	23 923	1 523	62 201	34 039	7	7	17	1771
4 651	3 244	177	100	222	2 880	184	12 696	(D)	12	9	30	1781
23 814 24 759 46 775 4 636 49 915 77 387	10 863 26 426 (D) 280 17 272 42 537	1 913 1 408 (D) (D) 4 175 7 821	431 495 2 203 187 1 518 1 792	689 452 1 355 (D) 1 262 2 322	3 287 4 386 *20 106 (D) 11 401 16 152	1 298 429 2 465 61 1 121 (D)	51 633 26 103 114 993 1 831 63 336 53 332	34 088 14 589 66 052 1 775 46 948 32 250	10 12 12 (W) 3 7	7 8 (D) (D) 2 8	36 30 30 (D) 6 20	179 1791 1793 1794 1795 1796 1799
11 826	4 452	10 818	304	*379	4 421	(D)	(S)	(S)	16	14	43	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	7 400	5 782	7 400	6 541	1	2	3	3
Proprietors and working partners	1 906	2 066	4 834	4 844	6	5	5	5
All employees**	84 812	67 397	80 752	65 510	1	1	1	2
Construction workers:								
March	68 592	52 158	65 793	53 355	1	1	1	2
May	71 328	54 903	71 465	57 634	1	1	1	2
August	71 562	56 804	76 029	60 685	1	1	1	2
November	66 100	53 026	68 921	55 987	1	1	1	2
Average	69 395	54 729	70 589	57 600	1	1	1	2
Other employees:								
March	15 638	12 584	9 776	7 740	1	2	3	3
May	15 356	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	15 490	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	15 214	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	15 424	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	28 566	21 736	(NA)	(NA)	1	1	(NA)	(NA)
April to June	30 756	23 790	(NA)	(NA)	1	1	(NA)	(NA)
July to September	30 596	24 516	(NA)	(NA)	1	1	(NA)	(NA)
October to December	29 222	22 668	(NA)	(NA)	1	1	(NA)	(NA)
Total hours worked	119 141	92 712	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	1 588 642	1 029 730	844 281	488 532	1	1	1	2
Payroll, construction workers	1 207 030	776 988	683 932	405 152	1	1	1	2
Payroll, other employees	381 612	252 741	160 348	83 380	1	1	3	2
First quarter payroll, all employees	369 504	235 588	179 990	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	290 393	186 625	133 470	(NA)	1	1	1	(NA)
Legally required expenditures	210 722	137 051	89 155	(NA)	1	1	1	(NA)
Voluntary expenditures	79 670	49 574	44 315	(NA)	1	1	1	(NA)
Dollar value of business done	7 490 137	4 489 385	3 616 621	2 073 766	1	1	1	2
Value of construction work ¹	7 261 360	4 374 981	3 495 064	2 022 463	1	1	1	2
Value of construction work subcontracted in from others	1 271 150	788 020	684 140	367 939	2	2	1	3
Land receipts ²	62 610	22 812	(NA)	(NA)	9	11	(NA)	(NA)
Other business receipts	166 166	91 591	121 557	51 303	4	3	9	8
Net value of construction†	5 005 363	3 043 654	2 620 646	1 525 708	1	1	1	2
Value added††	2 946 167	1 725 329	1 515 343	849 437	1	1	1	2
Selected costs	4 481 360	2 741 243	2 054 710	1 208 952	1	1	1	2
Materials, components, and supplies ³	2 119 247	1 323 104	1 107 660	712 197	2	1	1	3
Construction work subcontracted to others	2 255 997	1 331 327	874 419	496 755	1	1	1	3
Selected power, fuels, and lubricants	106 114	86 811	72 631	(NA)	2	2	4	(NA)
Electricity	16 743	12 058	9 847	(NA)	2	2	4	(NA)
Natural gas	4 151	3 583	4 988	(NA)	3	3	11	(NA)
Gasoline and diesel fuel	76 535	63 671	46 356	(NA)	2	2	3	(NA)
On highway use	56 662	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	19 873	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	8 684	7 497	11 440	(NA)	3	4	9	(NA)
Rental cost for machinery, equipment, and buildings	83 345	46 947	38 277	(NA)	3	2	3	(NA)
For machinery and equipment	61 514	38 116	32 713	18 780	3	2	3	3
For buildings	21 331	8 831	5 564	(NA)	3	4	4	(NA)
Selected purchased services	108 448	70 267	66 089	(NA)	2	1	2	(NA)
Communication services	30 089	18 219	14 074	(NA)	2	2	3	(NA)
Repairs to buildings and other structures	5 216	3 292	2 953	(NA)	6	4	4	(NA)
Repairs to machinery and equipment	73 142	48 755	49 062	(NA)	2	2	2	(NA)
Ownership of construction projects:								
Value of construction work	7 261 360	4 374 981	3 495 064	2 022 463	1	1	1	2
Government owned	1 924 162	1 210 899	897 455	678 941	2	2	1	2
Federal	845 515	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	1 078 647	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	5 337 198	3 164 082	2 597 609	1 343 522	2	1	1	3

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	826 934	721 951	3	2
Capital expenditures, other than land -----	128 753	70 781	5	3
New -----	88 384	49 040	4	3
Used -----	40 368	21 740	12	7
Retirements and disposition of depreciable assets -----	59 306	39 807	7	4
End-of-year gross book value of depreciable assets -----	896 381	752 925	2	2
Depreciation charges during year -----	99 887	94 185	3	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	175 152	124 156	8	4
Capital expenditures, other than land -----	25 512	10 214	11	6
New buildings and other structures -----	13 965	8 033	11	7
Used buildings and other structures -----	11 547	2 181	20	3
Retirements and disposition of depreciable assets -----	14 227	7 615	22	9
End-of-year gross book value of depreciable assets -----	186 436	126 756	7	4
Depreciation charges during year -----	15 933	10 378	10	3
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	651 782	597 794	2	2
Capital expenditures, other than land -----	103 240	60 566	5	3
New machinery and equipment, including automobiles and trucks -----	74 419	41 007	5	3
New automobiles and trucks, intended primarily for highway use -----	33 444	14 886	5	5
Used machinery and equipment, including automobiles and trucks -----	28 821	19 559	10	7
Retirements and disposition of depreciable assets -----	45 078	32 192	5	3
End-of-year gross book value of depreciable assets -----	709 944	626 169	2	2
Depreciation charges during year -----	83 953	83 806	3	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	7 400	1
Value of construction work	7 261 360	1
Establishments with inventories:		
Number	2 439	4
Value of construction work	2 973 532	3
Inventories ¹ :		
End of 1987, materials and supplies	69 969	6
End of 1986, materials and supplies	58 666	5
Establishments with no inventories:		
Number	3 344	4
Value of construction work	3 381 059	2
Establishments not reporting:		
Number	1 617	6
Value of construction work	906 769	5

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments -----	7 400	(S)	1 453	913	512	155	55	17	9	4
All employees** -----	84 812	(S)	9 302	12 206	15 446	10 414	8 324	5 349	6 496	8 595
Payroll, all employees -----	1 588 642	(S)	128 315	193 600	279 117	197 776	173 475	107 726	162 492	240 501
Construction worker hours (thousands) -----	119 141	(S)	11 588	14 765	21 320	16 701	13 174	7 870	10 817	12 559
Dollar value business done -----	7 490 137	(S)	591 626	929 577	1 284 874	903 375	902 939	1 463 970	(D)	630 073
Value of construction work ¹ -----	7 261 360	(S)	575 062	894 592	1 257 999	886 242	1 388 704	(D)	1 524 830	(D)
Net value of construction work† -----	5 005 363	(S)	471 283	711 240	929 679	697 480	538 169	309 924	408 839	377 771
Value added†† -----	2 946 167	(S)	273 918	402 635	538 551	391 430	500 980	(D)	563 654	(D)
Cost of materials, components, supplies, and fuels -----	2 225 362	(S)	207 689	332 063	415 407	596 503	(D)	373 983	(D)	(D)
Cost of construction work subcontracted to others -----	2 255 997	(S)	103 779	183 351	328 320	188 761	540 611	(D)	738 220	(D)
Rental cost for machinery, equipment, and buildings -----	83 345	(S)	7 304	12 353	14 781	15 540	9 416	5 044	12 887	(D)
Capital expenditures, other than land -----	128 753	(S)	16 123	17 393	27 151	20 180	10 821	5 554	19 546	(D)
End-of-year gross book value of depreciable assets -----	896 381	(S)	78 285	131 317	185 891	168 562	108 336	50 858	70 800	20 031
1982										
All employees** -----	67 397	6 598	6 989	9 556	14 754	7 073	7 479	4 194	3 651	7 103
Value of construction work ¹ -----	4 374 981	305 256	324 458	486 818	912 309	570 988	583 314	328 124	863 714	(D)
Value added†† -----	1 725 329	132 644	145 417	212 361	382 899	211 733	189 875	115 946	334 452	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	(S)	5	4	3	1	(W)	(W)	(W)	(W)
Net value of construction work† -----	1	(S)	6	5	3	(W)	(W)	(W)	(W)	(W)
Capital expenditures, other than land -----	5	(S)	21	13	18	2	(W)	(W)	(W)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	7 400	(S)	(S)	(S)	(S)	1 137	952	670	246	137	77
All employees** -----	84 812	(S)	(S)	(S)	(S)	7 315	9 523	13 110	9 722	9 831	24 645
Payroll, all employees -----	1 588 642	(S)	(S)	(S)	(S)	101 632	145 460	228 710	187 712	183 340	635 492
Construction worker hours (thousands) -----	119 141	(S)	(S)	(S)	(S)	8 836	12 066	17 641	14 339	15 544	37 623
Dollar value of business done -----	7 490 137	(S)	(S)	(S)	(S)	406 561	653 512	1 048 877	858 121	930 856	3 178 078
Value of construction work ¹ -----	7 261 360	(S)	(S)	(S)	(S)	394 500	629 453	996 090	830 060	908 514	3 096 993
Net value of construction work† -----	5 005 363	(S)	(S)	(S)	(S)	340 142	516 028	796 927	638 888	657 538	1 688 715
Value added†† -----	2 946 167	(S)	(S)	(S)	(S)	197 181	276 429	461 928	373 052	369 274	1 045 409
Cost of materials, components, supplies, and fuels -----	2 225 362	(S)	(S)	(S)	(S)	149 802	251 232	361 499	287 765	307 549	717 862
Cost of construction work subcontracted to others -----	2 255 997	(S)	(S)	(S)	(S)	54 358	113 424	199 163	191 172	250 976	1 408 278
Rental cost for machinery, equipment, and buildings -----	83 345	(S)	(S)	(S)	(S)	5 755	8 134	12 252	12 269	14 874	25 179
Capital expenditures, other than land -----	128 753	(S)	(S)	(S)	(S)	8 738	13 906	28 446	16 212	16 503	35 571
End-of-year gross book value of depreciable assets -----	896 381	(S)	(S)	(S)	(S)	63 385	90 318	159 724	109 096	132 057	276 294
1982											
All employees** -----	67 397	1 086	1 548	2 660	6 111	6 027	8 154	10 259	7 010	6 216	18 324
Value of construction work ¹ -----	4 374 981	9 953	25 166	69 989	197 595	237 125	392 647	616 141	457 762	547 981	1 820 621
Value added†† -----	1 725 329	5 311	13 914	36 173	95 990	119 735	179 020	270 247	195 068	202 292	607 575
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	(S)	6	5	3	2	1	(W)
Net value of construction work† -----	1	(S)	(S)	(S)	(S)	6	5	4	4	4	1
Capital expenditures, other than land -----	5	(S)	(S)	(S)	(S)	17	14	20	9	3	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	7 261 360	4 865 584	1 128 688	968 523	1	1	2	2
Building construction	5 465 824	3 826 731	937 446	685 218	1	2	2	2
Single-family houses	1 090 029	816 862	148 019	125 147	4	6	6	6
Single-family houses, detached	982 429	732 143	135 098	115 188	5	6	6	7
Single-family houses, attached	107 599	84 719	12 921	9 959	14	17	14	19
Apartment buildings with two or more apartments	201 837	167 574	11 687	22 575	5	5	14	20
Other residential buildings, including hotels and motels	233 668	189 259	32 856	11 552	3	3	9	16
Hotels and motels	180 439	158 502	18 372	3 564	4	4	6	15
Other residential buildings, excluding hotels and motels	53 228	30 757	14 484	7 987	9	10	19	22
Office buildings	854 118	685 362	122 698	46 058	2	1	7	8
Other commercial buildings such as stores, restaurants, and automobile service stations	857 000	676 105	133 216	47 678	4	4	5	10
Industrial buildings and warehouses	1 045 655	473 809	210 322	361 523	1	2	3	1
Industrial buildings	935 501	395 088	190 733	349 679	1	2	3	1
Warehouses	110 154	78 721	19 589	11 843	7	8	12	13
Religious buildings	107 275	79 017	22 298	5 958	8	8	13	13
Educational buildings	214 227	143 005	56 702	14 518	8	11	7	17
Hospitals and institutional buildings	495 503	313 548	166 134	15 820	2	1	6	9
Farm buildings	29 044	22 968	*1 799	4 277	35	36	57	24
Amusement, social, and recreational buildings	170 990	152 654	14 268	4 066	5	5	11	14
Other nonresidential buildings	150 049	106 568	17 447	26 046	8	11	3	6
Land development for buildings	16 429	(NA)	(NA)	(NA)	14	(NA)	(NA)	(NA)
Nonbuilding construction	1 513 402	1 038 853	191 242	283 306	2	2	4	4
Highways, streets, and related facilities	389 595	262 571	55 433	71 590	2	3	4	4
Outdoor swimming pools	22 451	19 111	1 050	2 289	26	26	37	37
Parking areas including private driveways	27 833	19 766	4 800	3 266	18	21	19	20
Bridges, tunnels, and elevated highways	97 091	70 564	12 542	*13 984	9	1	1	62
Power and communication transmission lines, towers, and related facilities	49 105	29 627	5 026	14 451	10	14	15	3
Sewers, water mains, and related facilities	162 530	127 384	12 116	23 029	6	7	18	5
Sewers, sewer lines, and related facilities	95 728	75 904	6 799	13 024	7	8	18	8
Water mains and related facilities	66 801	51 480	5 317	10 004	10	11	24	6
Pipeline, other than sewer or water lines	45 886	24 887	13 620	7 378	2	3	1	(W)
Blast furnaces, petroleum refineries, and chemical complexes	191 831	(D)	(D)	62 302	1	(D)	(D)	2
Power plants	244 018	(D)	(D)	47 897	1	(D)	(D)	2
Sewage treatment and water treatment plants	111 041	84 334	21 722	*4 984	8	4	27	46
Sewage treatment plants	83 141	67 554	13 821	1 765	9	5	35	36
Water treatment plants	27 899	16 780	7 900	*3 218	11	(W)	29	68
Earthmoving, nonbuilding	38 132	35 068	1 131	*1 932	9	9	26	48
Other nonbuilding construction	133 889	84 390	19 305	30 204	12	16	32	16
Construction work, n.s.k.	282 134	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	4 374 981	3 724 745	(NA)	650 236	1	1	(NA)	2
Building construction	2 901 036	2 505 070	(NA)	395 966	1	1	(NA)	2
Single-family houses	582 290	467 191	(NA)	115 098	3	4	(NA)	5
Single-family houses, detached	516 157	408 865	(NA)	107 292	3	4	(NA)	4
Single-family houses, attached	66 133	58 326	(NA)	7 806	8	9	(NA)	11
Apartment buildings with two or more apartments	202 409	185 225	(NA)	17 183	3	3	(NA)	6
Other residential buildings, including hotels and motels	71 633	59 491	(NA)	12 142	4	3	(NA)	16
Office buildings	295 787	250 597	(NA)	45 189	2	2	(NA)	10
Other commercial buildings such as stores, restaurants, and automobile service stations	291 607	242 667	(NA)	48 939	2	3	(NA)	6
Industrial buildings and warehouses	882 220	774 598	(NA)	107 622	1	1	(NA)	4
Industrial buildings	804 789	709 514	(NA)	95 274	1	1	(NA)	5
Warehouses	77 431	65 083	(NA)	12 347	4	4	(NA)	21
Religious buildings	32 161	27 670	(NA)	4 491	6	6	(NA)	16
Educational buildings	162 861	147 767	(NA)	15 093	4	5	(NA)	9
Hospitals and institutional buildings	288 645	271 053	(NA)	17 591	1	1	(NA)	8
Amusement, social, and recreational buildings	18 282	16 427	(NA)	1 855	9	11	(NA)	13
Other nonresidential buildings	73 136	62 378	(NA)	10 757	3	2	(NA)	17
Nonbuilding construction	1 161 366	962 162	(NA)	199 204	1	1	(NA)	1
Highways, streets, and related facilities	275 939	187 287	(NA)	88 652	3	4	(NA)	3
Outdoor swimming pools	2 070	1 338	(NA)	732	22	24	(NA)	39
Bridges, tunnels, and elevated highways	82 665	78 956	(NA)	3 709	7	7	(NA)	2
Marine construction	88 503	86 666	(NA)	1 837	1	1	(NA)	14
Power and communication transmission lines, towers, and related facilities	34 293	25 409	(NA)	8 883	5	6	(NA)	4
Sewers, water mains, and related facilities	120 391	108 457	(NA)	11 933	6	6	(NA)	7
Sewers, sewer lines, and related facilities	74 795	67 559	(NA)	7 236	7	8	(NA)	8
Water mains and related facilities	45 595	40 897	(NA)	4 697	10	8	(NA)	16
Pipeline, other than sewer or water lines	50 408	44 921	(NA)	5 487	(W)	(W)	(NA)	(W)
Blast furnaces, petroleum refineries, and chemical complexes	128 674	104 379	(NA)	24 295	1	(W)	(NA)	2
Power plants	82 726	71 704	(NA)	11 022	(W)	(W)	(NA)	1
Sewage treatment and water treatment plants	186 505	182 274	(NA)	4 231	1	1	(NA)	1
Sewage treatment plants	163 801	162 977	(NA)	823	1	1	(NA)	4
Water treatment plants	22 704	19 297	(NA)	3 407	(W)	(W)	(NA)	(W)
Other nonbuilding construction	109 182	70 764	(NA)	38 415	9	10	(NA)	21
Construction work, n.s.k.	312 578	257 512	(NA)	55 066	3	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	7 400	69 395	119 141	68 592	28 566	71 328	30 756
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 271	4 579	6 613	4 393	1 549	5 012	1 724
1522	Other residential buildings -----	69	409	612	404	139	439	166
1531	Operative builders -----	327	(D)	1 521	964	383	(D)	385
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	109	7 977	14 249	8 593	3 624	8 324	3 909
1542	Nonresidential buildings, n.e.c. -----	496	10 299	17 344	10 291	4 020	10 784	4 466
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	128	3 012	5 925	2 498	1 086	3 093	1 541
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	13	461	943	478	207	431	226
1623	Water, sewer, and utility lines -----	182	3 020	6 188	2 812	1 423	3 034	1 592
1629	Heavy construction, n.e.c. -----	280	6 867	12 928	7 580	3 981	7 203	3 335
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	1 067	7 282	12 977	6 766	2 904	7 487	3 386
1721	Painting and paper hanging -----	356	1 977	3 064	1 784	677	1 970	785
1731	Electrical work -----	600	5 572	10 259	5 622	2 524	5 550	2 577
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	336	3 186	4 468	3 100	1 031	3 221	1 081
1742	Plastering, drywall, and insulation work --	224	2 592	4 645	2 490	1 064	2 520	1 156
1743	Terrazzo, tile, marble, and mosaic work --	59	327	609	333	139	334	153
175	Carpentry and floor work:							
1751	Carpentry -----	381	983	1 624	927	363	987	400
1752	Floor laying and other floor work -----	118	(D)	572	431	126	(D)	145
1761	Roofing, siding, and sheet metal work -----	315	2 175	3 012	2 110	700	2 188	764
1771	Concrete work -----	244	1 950	3 001	1 866	648	1 936	746
1781	Water well drilling -----	38	118	217	120	54	122	58
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	72	672	964	661	211	682	254
1793	Glass and glazing work -----	86	468	818	468	195	449	199
1794	Excavation work -----	123	788	1 418	736	305	827	374
1795	Wrecking and demolition work -----	6	82	152	76	35	84	38
1796	Installing building equipment, n.e.c. -----	61	1 079	1 735	929	386	1 070	409
1799	Special trade contractors, n.e.c. -----	321	2 107	3 172	2 088	757	2 163	849
6552	Land subdividers and developers, n.e.c. --	107	53	98	60	23	42	22

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
71 562	30 596	66 100	29 222	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
4 812 424	1 700 169	4 099 369	1 638 136	6 12	8 21	6 14	9 26	9 11	10 20	6 12	8 23	6 16	8 26	152 1521 1522
(D)	404	866	348	13	13	13	14	14	13	14	13	13	13	1531 154
7 798 10 385	3 263 4 581	7 192 9 738	3 451 4 275	2 2	3 3	2 2	3 3	2 2	3 3	2 3	3 3	3 2	3 3	1541 1542
														16
3 352	1 720	3 106	1 577	4	5	4	5	4	5	4	5	4	5	1611
455 3 085 6 700	242 1 629 2 825	483 3 148 5 985	266 1 542 2 786	(W) 4 2	5 5 3	(W) 5 2	6 6 2	(W) 4 3	5 6 3	(W) 4 3	6 5 3	(W) 4 3	6 6 4	162 1622 1623 1629
														17
7 676	3 411	7 197	3 275	2	3	2	3	2	3	3	3	3	3	1711
2 424	927	1 731	674	8	9	8	9	9	10	12	12	9	9	1721
5 709	2 647	5 409	2 509	3	4	3	4	3	4	3	4	4	5	1731
														174
3 358 2 540 329	1 241 1 134 162	3 068 2 832 313	1 114 1 290 153	5 4 15	6 5 22	10 5 15	11 6 22	5 5 15	6 5 21	5 4 15	9 5 22	5 5 14	10 7 23	1741 1742 1743
1 018 (D)	424 153	1 001 348	436 146	11 (D)	15 14	11 15	15 16	11 (D)	16 15	10 (D)	13 15	15 11	19 13	175 1751 1752
2 323	841	2 078	705	7	9	7	8	7	8	8	11	8	11	1761
2 046	806	1 955	800	7	8	7	8	6	8	7	9	11	12	1771
126	54	107	48	11	14	19	15	6	13	6	14	14	15	1781
														179
743 484 874 76 1 193 2 165	266 213 409 36 472 823	605 469 714 92 1 124 2 019	232 209 328 42 467 742	10 11 11 (W) 3 7	17 14 13 2 3 11	15 12 12 (W) 4 8	18 14 14 2 3 11	11 12 11 (W) 4 8	21 15 12 2 3 12	10 10 11 (W) 3 7	17 14 12 2 3 11	7 11 11 (W) 2 8	15 15 14 2 5 11	1791 1793 1794 1795 1796 1799
63	30	45	21	25	35	24	32	26	38	28	39	26	37	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	11.5	18.7	1 716.9	104.6	.219	.306	.311	.011
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.6	12.3	1 444.2	108.6	.144	.377	.292	.007
1522	Other residential buildings	7.7	16.6	1 496.3	209.7	.103	.253	.474	.009
1531	Operative builders	(D)	(D)	(D)	(D)	.108	.432	.330	.004
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	80.3	26.6	1 786.3	73.2	.399	(D)	(D)	.013
1542	Nonresidential buildings, n.e.c.	26.4	19.6	1 684.0	216.1	.115	.206	.598	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	28.0	19.3	1 967.1	123.4	.186	.424	.220	.026
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	40.8	20.8	2 045.6	125.4	.191	.400	.214	.013
1623	Water, sewer, and utility lines	19.3	17.2	2 049.0	76.1	.263	.311	.111	.040
1629	Heavy construction, n.e.c.	30.1	23.0	1 882.6	105.9	.266	(D)	.351	.012
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	8.6	18.6	1 782.1	81.9	.287	.438	.067	.013
1721	Painting and paper hanging	6.4	15.1	1 549.8	52.1	.334	.268	.061	.020
1731	Electrical work	11.4	19.0	1 841.2	72.1	.322	.405	.048	.009
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	10.2	11.0	1 402.4	32.4	.366	.359	.073	.017
1742	Plastering, drywall, and insulation work	13.6	19.7	1 792.1	73.2	.317	.372	.070	.009
1743	Terrazzo, tile, marble, and mosaic work	6.9	17.3	1 862.4	64.0	.338	(D)	.032	.009
175	Carpentry and floor work:								
1751	Carpentry	3.0	11.4	1 652.1	43.2	.307	.384	.092	.006
1752	Floor laying and other floor work	(D)	(D)	(D)	(D)	(D)	(D)	*.081	.006
1761	Roofing, siding, and sheet metal work	8.4	14.5	1 384.8	65.2	.268	.386	.042	.007
1771	Concrete work	9.3	15.0	1 539.0	60.3	.290	.352	.067	.020
1781	Water well drilling	3.8	11.3	1 839.0	65.3	.215	.421	.023	.013
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	11.1	16.8	1 434.5	52.8	.378	.306	.054	.012
1793	Glass and glazing work	7.5	18.1	1 747.9	102.5	.242	.551	.029	.010
1794	Excavation work	8.2	17.5	1 799.5	83.7	.266	(D)	(D)	.033
1795	Wrecking and demolition work	15.8	(D)	1 853.7	54.1	(D)	.063	(D)	.042
1796	Installing building equipment, n.e.c.	20.3	22.2	1 608.0	63.4	.403	.252	.061	.022
1799	Special trade contractors, n.e.c.	7.9	14.1	1 505.5	56.1	.302	.360	.066	.015
6552	Land subdividers and developers, n.e.c.	3.0	16.1	1 849.1	468.7	.209	.179	.435	.012

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	BIRMINGHAM, AL MSA											
	Construction Industries and land subdividers and developers	1 900	30 570	671 467	2 793 050	1 974 639	1 148 663	858 720	818 411	33 178	1	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S) 11	(S) 86	(S) 1 608	(S) 36 063	(S) 13 723	(S) 6 796	(S) 6 990	(S) 22 340	(S) *222	(S) 14	(S) 16
1522	Other residential buildings											
1531	Operative builders	124	529	11 172	110 029	82 975	26 262	58 590	27 054	*563	13	30
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.	138	4 492	96 534	895 690	343 746	161 671	186 961	551 944	2 649	3	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	40	548	9 594	50 761	41 902	22 590	(D)	8 859	2 112	8	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	47	1 383	26 120	102 978	92 556	60 821	32 152	10 422	4 081	8	8
1629	Heavy construction, n.e.c.	54	3 053	72 903	316 149	(D) 118 797	(D) 118 797	(D) (D)	(D) (D)	5 732	4	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	292	3 205	63 769	223 251	202 393	112 537	91 054	20 858	3 361	3	3
1721	Painting and paper hanging	114	830	(D)	48 339	46 644	35 485	11 289	1 696	(S)	11	24
1731	Electrical work	179	2 389	51 709	159 400	144 567	86 761	58 163	14 833	1 807	5	6
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	72	1 490	17 520	45 225	44 645	24 834	19 884	581	312	7	3
1742	Plastering, drywall, and insulation work	63	1 504	31 409	94 042	91 766	58 881	33 879	2 276	2 487	5	4
1743	Terrazzo, tile, marble, and mosaic work	11	104	1 733	5 327	5 265	2 669	2 596	(S)	89	14	19
175	Carpentry and floor work:											
1751	Carpentry	(S) 50	(S) 187	(S) 3 139	(S) 16 337	(S) 14 350	(S) 6 538	(S) 7 833	(S) (S)	(S) *206	(S) 22	(S) 31
1752	Floor laying and other floorwork											
1761	Roofing, siding, and sheet metal work	45	337	5 721	21 489	20 802	12 859	(D)	687	174	14	11
1771	Concrete work	46	457	8 306	24 146	23 788	14 217	9 619	358	429	7	5
1781	Water well drilling	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S) 27	(S) 276	(S) 5 778	(S) 25 864	(S) 24 951	(S) 14 225	(S) 13 091	(S) 913	(S) 152	(S) 7	(S) 5
1793	Glass and glazing work											
1794	Excavation work	51	321	5 665	20 145	18 709	14 124	4 638	1 436	1 055	15	10
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	17	653	18 970	42 776	41 174	32 388	(D)	1 602	734	(W)	(W)
1799	Special trade contractors, n.e.c.	75	650	11 039	33 345	31 163	20 166	13 028	2 182	431	12	12
6552	Land subdividers and developers, n.e.c.	23	98	1 572	8 373	5 118	4 531	1 791	3 255	(D)	35	25

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Kentucky

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Kentucky. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 31,572 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$5.7 billion in total value of business done.

Most of the 31,572 construction establishments were small. Of the total, 25,261 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,701 construction establishments with 5 employees or more, while representing only 9 percent of all establishments, accounted for more than 74 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$4.8 billion on total dollar value of business done. Of this amount, \$4.6 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.1 billion, leaving net value of construction work of \$3.5 billion. In addition, these establishments paid out \$1.8 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$2.1 billion. (See Introduction and appendices for explanation of terms.)

There were 6,311 establishments with total employment averaging 55,761 during the year. Total payroll for 1987 was \$1.0 billion. Total hours worked by construction workers during the year were 77.1 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.



Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 25,261 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$914 million. Most of these establishments, about 77 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987 
1982 

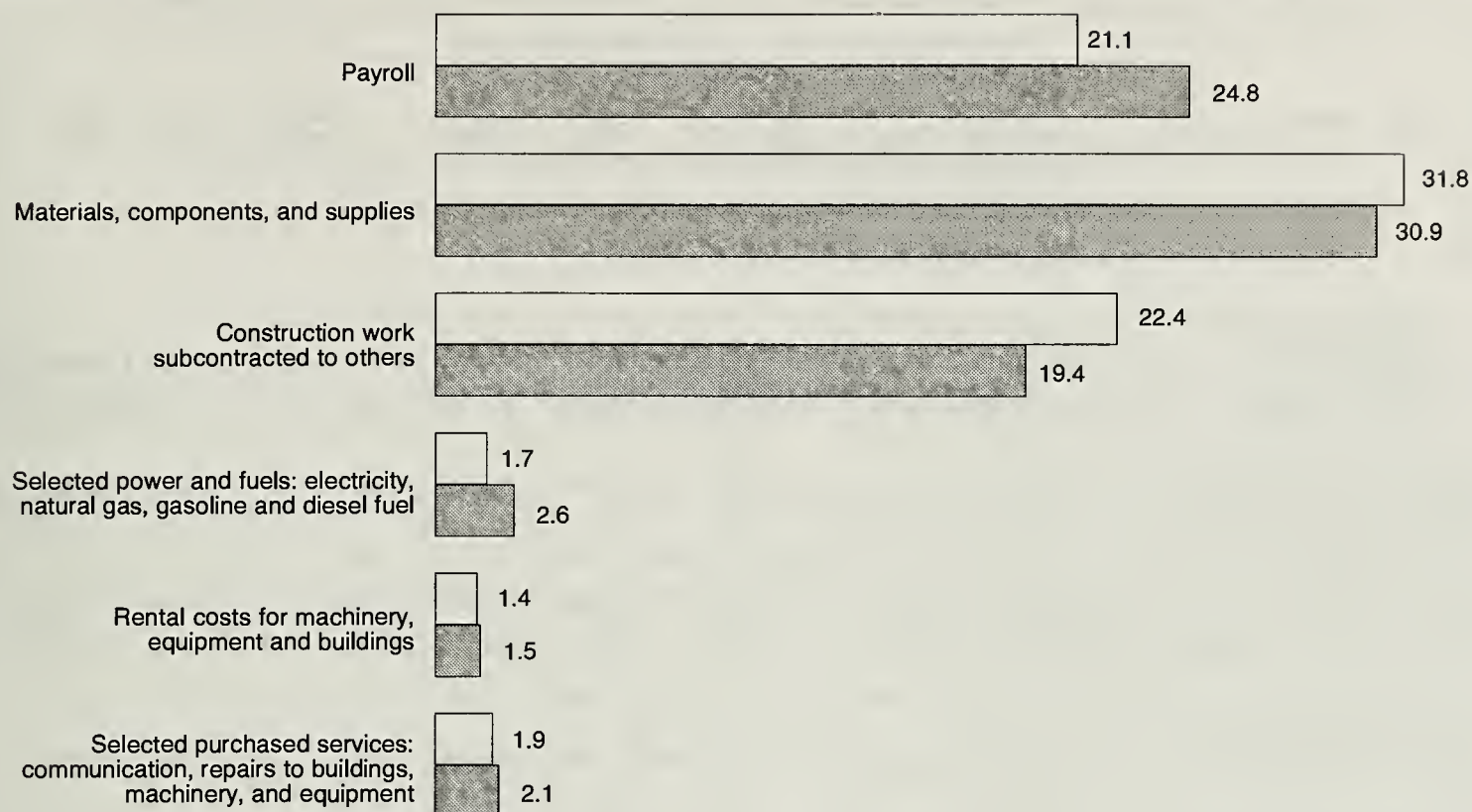




Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987 
1982 

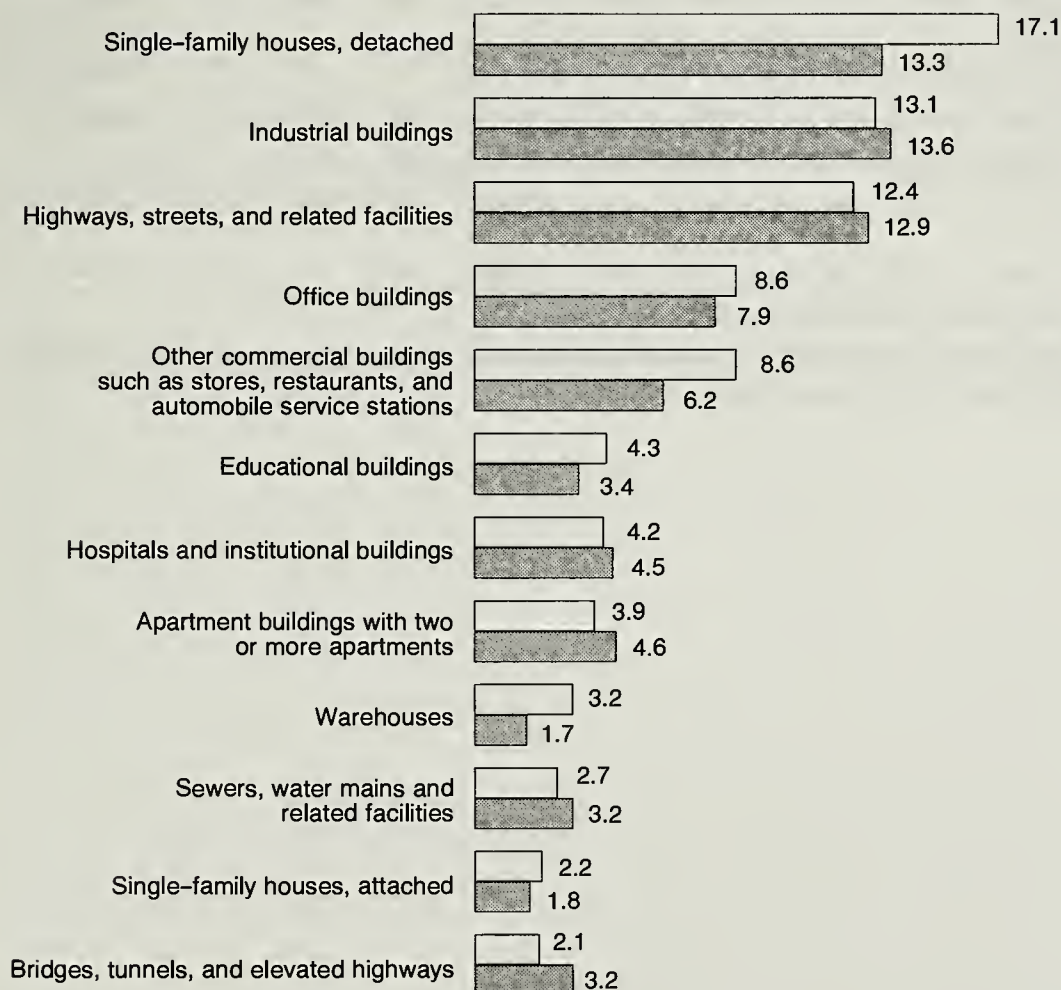


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction industries and land subdividers and developers -----	31 572	26 563	55 761	5 718 255	25 261	24 929	914 081	8 311	1 634	55 761	4 804 174	1	1
15, 16, 17	Construction industries -----	30 983	26 002	55 641	5 603 870	24 719	24 383	811 290	6 264	1 619	55 641	4 792 580	1	1
15	Building construction—General contractors and operative builders ----	6 493	4 893	13 289	2 205 810	4 893	4 561	343 554	1 600	332	13 289	1 862 256	2	3
16	Heavy construction other than building construction— contractors -----	995	490	9 727	1 043 328	435	416	15 098	560	74	9 727	1 028 228	3	2
17	Special trade contractors -----	23 495	20 619	32 625	2 354 735	19 391	19 406	452 839	4 104	1 213	32 625	1 902 096	2	1
1711	Plumbing, heating, and air-conditioning --	2 681	1 984	8 161	612 444	1 736	1 725	63 229	945	259	8 161	549 215	3	3
1731	Electrical work -----	2 064	1 594	5 539	369 341	1 463	1 449	36 045	601	145	5 539	333 296	3	3
6552	Land subdividers and developers, n.e.c.² -----	579	554	109	114 374	542	548	102 791	37	8	109	11 583	21	20
	1982													
	Construction industries and land subdividers and developers -----	24 539	20 796	45 497	3 342 249	18 572	18 537	510 584	5 967	2 259	45 497	2 831 665	1	1
15, 16, 17	Construction industries -----	24 109	20 454	45 311	3 302 809	18 212	18 210	482 157	5 897	2 244	45 311	2 820 652	1	1
15	Building construction—General contractors and operative builders ----	4 327	3 151	10 511	1 048 138	2 753	2 685	152 781	1 574	486	10 511	895 355	1	3
16	Heavy construction other than building construction— contractors -----	1 294	947	8 903	702 065	857	863	40 037	437	84	8 903	662 028	3	2
17	Special trade contractors -----	18 488	16 356	25 897	1 552 608	14 602	14 682	289 339	3 888	1 674	25 897	1 263 269	1	2
1711	Plumbing, heating, and air-conditioning --	2 232	1 613	6 748	452 186	1 337	1 337	48 555	895	276	6 748	403 631	2	2
1731	Electrical work -----	1 589	1 246	3 789	220 204	1 100	1 106	33 409	489	140	3 789	186 795	4	4
6552	Land subdividers and developers, n.e.c.² -----	424	340	178	39 437	360	327	28 427	84	13	178	11 010	19	15

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	31 572	26 563	55 761	5 718 255	25 261	24 929	914 081	6 311	1 634	55 761	4 804 174	1	1
\$10,000,000 or more -----	66	2	7 784	(D)	1	-	(D)	65	2	7 784	1 302 054	(W)	1
\$5,000,000 to \$9,999,999 -----	107	1	6 556	760 982	-	-	-	107	1	6 556	760 982	1	3
\$2,500,000 to \$4,999,999 -----	210	14	7 066	709 010	8	7	31 731	202	7	7 066	677 279	2	4
\$1,000,000 to \$2,499,999 -----	621	86	11 093	949 766	52	36	73 517	569	50	11 093	876 249	4	5
\$500,000 to \$999,999 -----	841	180	7 256	579 142	145	114	97 024	696	66	7 256	482 118	6	6
 \$250,000 to \$499,999 -----	 1 371	 593	 6 539	 469 673	 367	 322	 123 570	 1 004	 271	 6 539	 346 103	 6	 6
\$100,000 to \$249,999 -----	(S)	(S)	(S)	(S)	1 308	1 236	195 183	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	1 976	1 912	138 443	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	3 010	2 988	107 013	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000 -----	 (S)	 (S)	 (S)	 (S)	 18 394	 18 314	 137 468	 (S)	 (S)	 (S)	 (S)	 (S)	 (S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	5 417	5 387	85 754	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	4 489	4 478	32 506	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	3 479	3 463	12 794	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	5 009	4 986	6 415	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
 1982													
The State -----	24 539	20 796	45 497	3 342 249	18 572	18 537	510 584	5 967	2 259	45 497	2 831 665	1	1
\$10,000,000 or more -----	35	2	4 954	(D)	2	-	(D)	33	2	4 954	(D)	(W)	(D)
\$5,000,000 to \$9,999,999 -----	56	4	3 517	(D)	2	2	(D)	54	2	3 517	(D)	(W)	(D)
\$2,500,000 to \$4,999,999 -----	118	5	5 279	1 389 948	3	2	54 002	115	3	5 279	1 335 946	(W)	(W)
\$1,000,000 to \$2,499,999 -----	354	32	8 007	566 124	7	5	11 197	347	27	8 007	554 927	2	4
\$500,000 to \$999,999 -----	513	109	5 771	355 274	47	35	30 823	466	74	5 771	324 451	5	5
 \$250,000 to \$499,999 -----	 894	 277	 5 884	 319 845	 159	 135	 53 595	 735	 142	 5 884	 266 250	 5	 5
\$100,000 to \$249,999 -----	2 116	1 225	6 694	331 364	675	11 654	99 868	1 441	571	6 694	231 496	5	4
\$50,000 to \$99,999 -----	2 430	1 899	2 960	170 021	1 255	1 280	86 479	1 175	619	2 960	83 542	7	5
\$25,000 to \$49,999 -----	2 757	2 502	1 335	97 353	2 088	2 107	72 458	669	395	1 335	24 895	7	7
 Less than \$25,000 -----	 15 264	 14 738	 1 094	 112 318	 14 334	 14 317	 102 162	 930	 421	 1 094	 10 156	 6	 7
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	4 039	4 076	62 495	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	3 826	3 808	25 822	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	3 954	3 930	11 330	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	2 515	2 503	2 515	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	6 311	55 761	45 192	1 014 124	759 232	77 107	4 603 454	3 527 907
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	807	2 797	2 326	37 003	27 637	3 259	241 910	180 708
1522	Other residential buildings-----	113	990	814	16 044	10 539	1 231	105 280	59 305
1531	Operative builders-----	274	1 578	750	34 143	10 690	1 250	353 058	193 715
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	83	2 493	1 975	58 189	43 012	3 908	318 885	164 260
1542	Nonresidential buildings, n.e.c.-----	323	5 431	4 253	106 510	73 177	7 696	726 998	363 650
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction-----	153	4 455	3 802	105 021	85 053	6 693	568 250	478 372
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	32	821	700	18 188	14 145	1 405	88 839	70 083
1623	Water, sewer, and utility lines-----	158	2 250	1 887	39 767	31 514	3 405	169 508	146 217
1629	Heavy construction, n.e.c.-----	217	2 201	1 822	37 935	29 695	2 949	162 468	139 475
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning-----	945	8 161	6 423	147 457	109 537	11 811	543 223	493 752
1721	Painting and paper hanging-----	292	1 732	1 515	28 378	23 053	2 392	79 006	74 568
1731	Electrical work-----	601	5 539	4 460	108 580	83 481	8 169	329 504	309 749
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	347	2 094	1 868	26 872	23 012	2 599	75 140	69 791
1742	Plastering, drywall, and insulation work-----	172	3 232	2 839	56 922	46 735	4 805	168 467	155 350
1743	Terrazzo, tile, marble, and mosaic work-----	35	185	150	3 969	2 875	281	14 344	14 122
175	Carpentry and floor work:								
1751	Carpentry-----	351	1 362	1 193	18 343	15 695	1 942	60 702	55 598
1752	Floor laying and other floor work-----	77	282	219	3 493	2 721	377	11 568	11 435
1761	Roofing, siding, and sheet metal work-----	317	2 684	2 165	41 901	30 801	3 336	149 923	139 239
1771	Concrete work-----	308	2 467	2 078	32 563	25 827	3 186	122 351	113 038
1781	Water well drilling-----	*24	70	60	682	605	102	2 825	2 799
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	46	736	603	15 467	12 391	899	54 999	52 225
1793	Glass and glazing work-----	55	439	301	8 961	5 873	538	33 536	33 104
1794	Excavation work-----	222	1 163	980	19 356	15 800	1 492	76 900	72 836
1795	Wrecking and demolition work-----	8	52	44	720	611	72	2 912	2 763
1796	Installing building equipment, n.e.c.-----	54	1 085	843	25 880	19 895	1 443	71 052	65 466
1799	Special trade contractors, n.e.c.-----	250	1 342	1 085	20 066	14 594	1 829	65 373	61 800
6552	Land subdividers and developers, n.e.c.-----	37	109	18	1 699	253	*25	6 422	4 474

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
2 060 016	1 609 853	1 075 547	69 491	125 516	823 930	45 497	2 744 178	1 316 744	1	1	3	15, 16, 17
												15
87 614	99 802	61 201	1 754	2 259	28 994	3 502	157 383	61 190	6	10	28	152
36 244	24 693	45 974	768	1 239	5 586	687	58 877	16 707	13	11	35	1521
												1522
80 367	123 244	159 343	1 238	9 872	63 472	776	100 006	36 977	10	10	10	1531
99 086	89 246	154 624	4 316	2 682	20 541	1 890	189 297	72 655	5	6	7	154
204 885	178 610	363 348	7 286	7 330	39 512	3 656	367 549	108 510	3	4	8	1541
												1542
												16
270 106	242 580	89 878	13 135	37 198	241 297	4 266	325 360	152 935	2	2	4	1611
29 498	41 186	18 755	1 362	4 857	37 126	973	93 995	37 069	6	3	7	162
90 438	56 271	23 291	5 249	10 468	52 136	2 018	105 158	63 586	7	5	15	1622
91 124	52 105	22 992	6 811	10 856	70 322	1 646	110 847	63 163	13	11	20	1623
												1629
												17
277 988	221 755	49 470	5 952	10 809	58 900	6 748	399 518	199 829	3	2	14	1711
57 997	16 772	4 437	1 186	2 188	9 490	1 757	51 200	36 577	7	9	23	1721
182 360	131 181	19 754	4 123	4 416	44 650	3 789	179 450	106 162	3	3	10	1731
48 133	(D)	5 349	1 526	1 342	7 623	1 736	43 132	26 270	7	5	17	174
95 692	61 500	13 117	1 560	1 783	9 439	1 826	80 274	49 576	8	7	18	1741
8 245	6 146	222	58	120	1 212	211	8 964	5 514	14	16	39	1742
												1743
35 563	22 105	5 104	493	702	3 532	1 448	50 320	30 511	9	10	22	175
7 438	4 302	133	55	*503	1 843	278	10 464	6 038	22	23	63	1751
												1752
82 619	60 215	10 684	1 481	5 538	25 403	1 841	84 111	50 420	6	6	18	1761
68 648	47 149	9 313	2 446	3 566	28 294	1 869	92 658	48 137	7	7	23	1771
1 497	(D)	25	*35	(S)	(S)	(S)	(S)	(S)	32	29	(S)	1781
35 287	18 881	2 774	1 048	548	4 849	592	30 876	21 306	8	8	7	179
18 591	16 649	432	505	395	3 396	317	14 880	8 777	12	14	9	1791
51 518	22 497	4 063	4 968	4 782	44 230	1 341	79 733	47 753	8	8	27	1793
2 508	(D)	149	291	114	727	(D)	504	437	(W)	(W)	(W)	1794
51 755	24 679	5 585	857	1 240	7 939	784	51 777	32 676	4	3	13	1795
41 137	22 027	3 572	945	411	*11 274	1 215	42 644	25 391	14	14	39	1796
												1799
3 668	1 181	1 948	34	63	1 074	178	7 013	4 280	21	21	10	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	6 311	5 967	7 440	6 317	1	2	3	3
Proprietors and working partners	1 634	2 259	4 989	4 469	6	4	5	5
All employees**	55 761	45 497	55 757	51 012	1	1	1	2
Construction workers:								
March	40 416	33 703	39 718	37 931	1	2	2	2
May	45 647	38 693	50 168	44 340	1	2	2	2
August	49 041	39 563	53 071	49 378	1	2	2	2
November	45 663	36 863	49 509	42 637	1	1	2	2
Average	45 192	37 816	48 150	44 238	1	1	2	2
Other employees:								
March	10 330	7 596	7 005	6 562	2	2	2	3
May	10 379	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	10 759	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	10 831	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	10 575	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	16 308	12 996	(NA)	(NA)	2	2	(NA)	(NA)
April to June	19 477	15 720	(NA)	(NA)	2	2	(NA)	(NA)
July to September	21 583	16 297	(NA)	(NA)	2	2	(NA)	(NA)
October to December	19 737	14 868	(NA)	(NA)	2	2	(NA)	(NA)
Total hours worked	77 107	59 882	(NA)	(NA)	2	1	(NA)	(NA)
Payroll, all employees	1 014 124	701 897	600 076	426 839	1	1	1	2
Payroll, construction workers	759 232	542 534	489 408	355 980	1	1	1	2
Payroll, other employees	254 891	159 362	110 669	70 859	2	1	1	2
First quarter payroll, all employees	213 799	155 112	110 452	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	205 432	124 998	100 888	(NA)	1	1	1	(NA)
Legally required expenditures	145 873	97 502	68 087	(NA)	1	1	1	(NA)
Voluntary expenditures	59 559	27 495	32 801	(NA)	1	2	1	(NA)
Dollar value of business done	4 804 174	2 831 665	2 493 404	1 630 889	1	1	1	2
Value of construction work ¹	4 603 454	2 744 178	2 404 759	1 573 249	1	1	1	2
Value of construction work subcontracted in from others	1 074 589	655 468	513 307	295 473	3	2	2	4
Land receipts ²	58 757	17 453	(NA)	(NA)	8	8	(NA)	(NA)
Other business receipts	141 962	70 034	88 645	57 640	3	3	5	3
Net value of construction†	3 527 907	2 196 161	1 944 503	1 253 532	1	1	1	2
Value added††	2 060 016	1 316 744	1 100 065	767 355	1	1	1	2
Selected costs	2 685 401	1 497 467	1 363 955	853 642	2	1	2	2
Materials, components, and supplies ³	1 526 668	875 984	854 928	533 925	2	1	2	2
Construction work subcontracted to others	1 075 547	548 017	460 256	319 717	2	2	2	3
Selected power, fuels, and lubricants	83 185	73 466	48 771	(NA)	2	2	2	(NA)
Electricity	9 673	8 392	4 978	(NA)	2	3	3	(NA)
Natural gas	2 817	4 094	1 915	(NA)	4	2	6	(NA)
Gasoline and diesel fuel	65 376	56 724	35 991	(NA)	2	2	2	(NA)
On highway use	41 722	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Off highway use	23 654	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	5 317	4 255	5 887	(NA)	4	4	4	(NA)
Rental cost for machinery, equipment, and buildings	69 491	43 340	32 811	(NA)	3	2	1	(NA)
For machinery and equipment	52 235	35 235	28 282	36 760	4	2	1	2
For buildings	17 255	8 104	4 529	(NA)	4	4	4	(NA)
Selected purchased services	90 103	59 702	50 379	(NA)	2	2	2	(NA)
Communication services	19 068	12 690	9 925	(NA)	3	2	2	(NA)
Repairs to buildings and other structures	4 763	2 633	2 261	(NA)	9	5	8	(NA)
Repairs to machinery and equipment	66 271	44 379	38 194	(NA)	3	2	2	(NA)
Ownership of construction projects:								
Value of construction work	4 603 454	2 744 178	2 404 759	1 573 249	1	1	1	2
Government owned	1 276 638	763 478	637 474	586 854	3	3	1	2
Federal	384 925	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
State and local	891 712	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	3 326 816	1 980 700	1 767 285	986 395	2	2	2	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	734 435	646 587	3	2
Capital expenditures, other than land -----	125 516	55 078	3	3
New -----	90 371	38 998	4	3
Used -----	35 144	16 079	5	5
Retirements and disposition of depreciable assets -----	36 021	26 399	4	3
End-of-year gross book value of depreciable assets -----	823 930	675 265	3	2
Depreciation charges during year -----	94 205	84 317	3	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	144 971	102 524	8	3
Capital expenditures, other than land -----	18 662	6 438	7	5
New buildings and other structures -----	13 681	5 170	8	5
Used buildings and other structures -----	4 980	1 267	11	19
Retirements and disposition of depreciable assets -----	2 846	3 422	23	9
End-of-year gross book value of depreciable assets -----	160 788	105 540	7	3
Depreciation charges during year -----	11 134	9 488	8	3
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	589 463	544 082	3	2
Capital expenditures, other than land -----	106 853	48 639	4	3
New machinery and equipment, including automobiles and trucks -----	76 689	33 828	4	3
New automobiles and trucks, intended primarily for highway use -----	28 006	11 441	5	5
Used machinery and equipment, including automobiles and trucks -----	30 164	14 811	6	5
Retirements and disposition of depreciable assets -----	33 175	22 977	4	3
End-of-year gross book value of depreciable assets -----	663 141	569 745	3	2
Depreciation charges during year -----	83 071	74 829	3	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	6 311	1
Value of construction work	4 603 454	1
Establishments with inventories:		
Number	2 390	4
Value of construction work	2 216 551	3
Inventories ¹ :		
End of 1987, materials and supplies	47 962	4
End of 1986, materials and supplies	46 150	4
Establishments with no inventories:		
Number	2 729	4
Value of construction work	1 726 773	3
Establishments not reporting:		
Number	1 192	6
Value of construction work	660 130	5

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	6 311	(S)	1 265	795	480	110	45	6	-	-
All employees**	55 761	(S)	8 128	10 352	14 286	7 588	6 526	1 847	-	-
Payroll, all employees	1 014 124	(S)	109 018	181 737	277 847	168 830	147 304	42 751	-	-
Construction worker hours (thousands)	77 107	(S)	10 534	13 652	20 164	11 735	10 069	2 959	-	-
Dollar value business done	4 804 174	(S)	483 000	809 124	1 233 236	773 616	744 726	196 527	-	-
Value of construction work ¹	4 603 454	(S)	463 807	783 166	1 196 880	742 160	879 587	(D)	-	-
Net value of construction work†	3 527 907	(S)	392 507	610 749	941 776	995 628	(D)	154 229	-	-
Value added††	2 060 016	(S)	227 751	362 995	558 300	315 337	281 868	80 672	-	-
Cost of materials, components, supplies, and fuels	1 609 853	(S)	174 174	264 081	660 309	(D)	301 831	(D)	-	-
Cost of construction work subcontracted to others	1 075 547	(S)	71 300	172 417	255 104	471 890	(D)	(D)	-	-
Rental cost for machinery, equipment, and buildings	69 491	(S)	6 462	12 555	16 453	14 621	11 970	2 487	-	-
Capital expenditures, other than land	125 516	(S)	11 168	18 923	31 615	19 606	27 247	7 835	-	-
End-of-year gross book value of depreciable assets	823 930	(S)	78 496	120 054	197 044	133 929	99 204	101 843	-	-
1982										
All employees**	45 497	7 012	8 151	8 535	10 234	5 360	3 857	2 348	-	-
Value of construction work ¹	2 744 178	301 039	372 724	485 696	708 589	435 105	283 769	157 256	-	-
Value added††	1 316 744	149 197	183 792	225 356	333 790	205 574	131 167	87 866	-	-
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	4	6	4	3	2	(W)	(W)	-	-
Net value of construction work†	1	4	6	5	2	1	(D)	(W)	-	-
Capital expenditures, other than land	3	4	19	14	7	1	1	(W)	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	6 311	(S)	(S)	(S)	(S)	1 004	696	569	202	107	65
All employees**	55 761	(S)	(S)	(S)	(S)	6 539	7 256	11 093	7 066	6 556	7 784
Payroll, all employees	1 014 124	(S)	(S)	(S)	(S)	90 341	122 486	213 302	149 226	155 522	190 956
Construction worker hours (thousands)	77 107	(S)	(S)	(S)	(S)	8 419	9 722	15 523	10 257	10 164	11 659
Dollar value of business done	4 804 174	(S)	(S)	(S)	(S)	346 103	482 118	876 249	677 279	760 982	1 302 054
Value of construction work ¹	4 603 454	(S)	(S)	(S)	(S)	333 455	470 921	845 622	658 135	738 516	1 204 933
Net value of construction work†	3 527 907	(S)	(S)	(S)	(S)	299 828	396 304	699 978	526 485	537 236	748 570
Value added††	2 060 016	(S)	(S)	(S)	(S)	177 117	238 202	404 647	293 459	328 088	421 826
Cost of materials, components, supplies, and fuels	1 609 853	(S)	(S)	(S)	(S)	129 181	165 773	308 288	245 134	231 613	401 303
Cost of construction work subcontracted to others	1 075 547	(S)	(S)	(S)	(S)	33 627	74 617	145 643	131 650	201 280	456 363
Rental cost for machinery, equipment, and buildings	69 491	(S)	(S)	(S)	(S)	4 015	8 949	13 112	9 014	12 038	17 897
Capital expenditures, other than land	125 516	(S)	(S)	(S)	(S)	9 767	13 799	19 790	14 516	17 047	42 902
End-of-year gross book value of depreciable assets	823 930	(S)	(S)	(S)	(S)	71 850	88 560	140 330	76 802	115 317	270 916
1982											
All employees**	45 497	1 094	1 335	2 960	6 694	5 884	5 771	8 007	5 279	3 517	4 954
Value of construction work ¹	2 744 178	9 932	24 454	82 066	227 316	258 142	314 860	539 477	400 515	355 933	531 482
Value added††	1 316 744	5 663	14 666	45 900	123 038	134 305	156 482	263 429	187 057	154 521	231 681
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	(S)	6	6	4	2	1	(W)
Net value of construction work†	1	(S)	(S)	(S)	(S)	6	6	4	4	2	1
Capital expenditures, other than land	3	(S)	(S)	(S)	(S)	20	17	10	11	7	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	4 603 454	2 955 062	852 182	549 602	1	2	2	2
Building construction	3 203 180	2 152 735	664 888	365 981	2	2	3	3
Single-family houses.....	916 902	678 022	141 628	97 251	4	5	6	7
Single-family houses, detached.....	814 372	589 175	132 991	92 205	5	6	6	7
Single-family houses, attached.....	102 530	88 847	8 637	5 045	14	16	17	15
Apartment buildings with two or more apartments.....	178 783	121 250	42 395	15 137	8	10	14	9
Other residential buildings, including hotels and motels.....	76 753	44 240	21 625	10 887	5	4	13	10
Hotels and motels.....	45 481	33 257	9 631	2 592	4	4	12	8
Other residential buildings, excluding hotels and motels.....	31 271	10 982	11 994	8 294	10	11	21	13
Office buildings.....	311 862	200 747	78 866	32 248	3	3	6	8
Other commercial buildings such as stores, restaurants, and automobile service stations.....	394 101	275 437	70 952	47 711	3	3	4	7
Industrial buildings and warehouses.....	751 603	470 168	163 435	118 000	2	3	5	5
Industrial buildings.....	602 428	354 839	142 586	105 003	3	3	6	6
Warehouses.....	149 175	115 329	20 849	12 996	4	5	9	6
Religious buildings.....	54 496	34 386	14 634	5 475	7	10	8	11
Educational buildings.....	199 551	120 524	62 249	16 776	6	8	11	17
Hospitals and institutional buildings.....	192 784	123 279	55 106	14 398	3	3	4	12
Farm buildings.....	24 336	19 699	1 807	2 829	14	16	22	24
Amusement, social, and recreational buildings.....	20 768	14 728	4 625	1 414	8	10	7	4
Other nonresidential buildings.....	61 665	50 255	7 566	3 855	6	4	35	36
Land development for buildings.....	19 576	(NA)	(NA)	(NA)	11	(NA)	(NA)	(NA)
Nonbuilding construction	1 173 243	802 327	187 293	183 622	2	2	6	3
Highways, streets, and related facilities.....	571 255	382 524	81 400	107 331	2	2	2	2
Parking areas including private driveways.....	35 168	19 900	6 649	8 618	15	15	25	18
Bridges, tunnels, and elevated highways.....	94 976	79 550	9 918	5 507	3	3	(W)	5
Power and communication transmission lines, towers, and related facilities.....	57 024	38 298	11 593	7 133	8	7	29	22
Sewers, water mains, and related facilities.....	123 962	96 799	11 546	15 616	7	8	20	22
Sewers, sewer lines, and related facilities.....	72 671	53 879	7 560	11 231	8	9	27	29
Water mains and related facilities.....	51 291	42 920	3 986	4 384	9	10	10	13
Pipeline, other than sewer or water lines.....	32 757	20 235	5 482	7 040	5	6	2	17
Blast furnaces, petroleum refineries, and chemical complexes.....	37 246	17 616	8 681	10 949	10	15	18	6
Sewage treatment and water treatment plants.....	68 543	43 870	21 151	3 521	5	5	6	13
Sewage treatment plants.....	36 760	28 009	7 560	1 191	3	3	7	5
Water treatment plants.....	31 782	15 861	13 591	2 330	9	12	5	20
Earthmoving, nonbuilding.....	41 393	27 530	(S)	*1 342	31	13	(S)	45
Other nonbuilding construction.....	110 919	76 005	18 353	16 565	13	16	13	19
Construction work, n.s.k.	227 029	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	2 744 178	2 057 551	(NA)	686 626	1	1	(NA)	2
Building construction	1 689 447	1 308 765	(NA)	380 682	1	2	(NA)	3
Single-family houses.....	414 042	303 376	(NA)	110 666	3	5	(NA)	5
Single-family houses, detached.....	365 076	267 112	(NA)	97 963	4	4	(NA)	6
Single-family houses, attached.....	48 966	36 264	(NA)	12 702	9	9	(NA)	11
Apartment buildings with two or more apartments.....	125 756	105 233	(NA)	20 523	5	6	(NA)	5
Other residential buildings, including hotels and motels.....	43 415	29 607	(NA)	13 807	7	7	(NA)	13
Office buildings.....	217 323	180 695	(NA)	36 627	2	2	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations.....	170 984	141 865	(NA)	29 119	4	4	(NA)	8
Industrial buildings and warehouses.....	418 461	301 151	(NA)	117 310	2	2	(NA)	7
Industrial buildings.....	372 446	262 333	(NA)	110 112	3	2	(NA)	8
Warehouses.....	46 015	38 818	(NA)	7 197	6	6	(NA)	4
Religious buildings.....	25 626	19 470	(NA)	6 156	7	7	(NA)	7
Educational buildings.....	92 217	74 879	(NA)	17 338	3	4	(NA)	6
Hospitals and institutional buildings.....	123 026	105 509	(NA)	17 516	4	4	(NA)	4
Amusement, social, and recreational buildings.....	30 920	24 739	(NA)	6 181	3	3	(NA)	5
Other nonresidential buildings.....	27 670	22 236	(NA)	5 434	16	16	(NA)	10
Nonbuilding construction	809 568	550 624	(NA)	258 944	1	1	(NA)	2
Highways, streets, and related facilities.....	354 670	213 554	(NA)	141 115	2	2	(NA)	4
Bridges, tunnels, and elevated highways.....	89 170	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Power and communication transmission lines, towers, and related facilities.....	43 769	40 386	(NA)	3 382	5	4	(NA)	9
Sewers, water mains, and related facilities.....	88 782	76 796	(NA)	11 985	4	4	(NA)	12
Sewers, sewer lines, and related facilities.....	54 406	49 404	(NA)	5 002	4	5	(NA)	6
Water mains and related facilities.....	34 375	27 392	(NA)	6 983	9	7	(NA)	14
Pipeline, other than sewer or water lines.....	16 170	11 148	(NA)	5 021	12	13	(NA)	15
Blast furnaces, petroleum refineries, and chemical complexes.....	34 671	21 287	(NA)	13 383	1	1	(NA)	(W)
Power plants.....	62 337	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Sewage treatment and water treatment plants.....	34 403	31 829	(NA)	2 574	3	3	(NA)	2
Sewage treatment plants.....	21 679	19 659	(NA)	2 020	3	3	(NA)	1
Water treatment plants.....	12 724	12 169	(NA)	554	6	6	(NA)	8
Other nonbuilding construction.....	85 589	61 128	(NA)	24 452	10	7	(NA)	17
Construction work, n.s.k.	245 162	198 161	(NA)	47 000	4	5	(NA)	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	6 311	45 192	77 107	40 416	16 308	45 647	19 477
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	807	2 326	3 259	2 121	673	2 370	846
1522	Other residential buildings -----	113	814	1 231	1 072	406	887	327
1531	Operative builders -----	274	750	1 250	792	303	797	323
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	83	1 975	3 908	1 820	885	1 960	971
1542	Nonresidential buildings, n.e.c. -----	323	4 253	7 696	3 922	1 682	4 282	1 954
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	153	3 802	6 693	2 595	983	4 198	1 888
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	32	700	1 405	596	282	685	355
1623	Water, sewer, and utility lines -----	158	1 887	3 405	1 658	662	1 811	817
1629	Heavy construction, n.e.c. -----	217	1 822	2 949	1 400	545	1 999	819
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	945	6 423	11 811	5 938	2 668	6 376	2 929
1721	Painting and paper hanging -----	292	1 515	2 392	1 268	484	1 507	597
1731	Electrical work -----	601	4 460	8 169	4 080	1 802	4 219	1 886
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	347	1 868	2 599	1 593	531	1 855	665
1742	Plastering, drywall, and insulation work --	172	2 839	4 805	2 670	1 098	2 734	1 147
1743	Terrazzo, tile, marble, and mosaic work --	35	150	281	132	58	160	70
175	Carpentry and floor work:							
1751	Carpentry -----	351	1 193	1 942	1 140	445	1 175	476
1752	Floor laying and other floor work -----	77	219	377	196	79	230	97
1761	Roofing, siding, and sheet metal work -----	317	2 165	3 336	2 020	724	2 087	796
1771	Concrete work -----	308	2 078	3 186	1 829	587	2 211	863
1781	Water well drilling -----	*24	60	102	55	21	57	24
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	46	603	899	551	193	651	236
1793	Glass and glazing work -----	55	301	538	254	109	307	136
1794	Excavation work -----	222	980	1 492	877	334	1 030	388
1795	Wrecking and demolition work -----	8	44	72	43	15	44	19
1796	Installing building equipment, n.e.c. -----	54	843	1 443	812	327	828	348
1799	Special trade contractors, n.e.c. -----	250	1 085	1 829	954	394	1 159	482
6552	Land subdividers and developers, n.e.c. --	37	18	*25	*17	*5	18	*6

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
49 041	21 583	45 663	19 737	1	2	1	2	1	2	1	2	1	2	15, 16, 17
														15
2 465 663	899 253	2 347 637	839 244	7 13	11 14	7 16	11 16	7 18	11 16	7 10	11 12	7 11	10 15	152 1521 1522
755	331	656	292	11	14	12	15	11	14	11	15	12	15	1531
														154
2 088 4 414	1 064 2 093	2 033 4 395	986 1 966	5 3	6 5	6 3	8 5	4 3	6 5	5 4	6 6	6 4	7 6	1541 1542
														16
4 511	2 112	3 907	1 708	2	2	2	3	2	3	2	3	2	3	1611
														162 1622
792 2 243 2 090	408 1 069 863	726 1 836 1 798	358 855 721	5 7 14	6 8 15	3 6 10	5 9 13	8 6 16	5 8 17	4 9 16	6 10 16	6 7 13	7 8 14	1623 1629
														17
6 889	3 187	6 492	3 025	3	4	4	4	3	4	3	4	3	5	1711
1 766	736	1 520	574	7	11	10	14	8	13	7	11	6	10	1721
4 915	2 246	4 626	2 233	3	5	3	4	3	4	3	6	3	5	1731
														174
														1741
2 138 2 890 154	708 1 253 77	1 896 3 060 157	693 1 306 74	7 8 12	11 12 17	8 7 14	10 12 17	8 8 13	12 12 17	7 8 11	11 13 16	8 8 12	11 12 16	1742 1743
														175
1 256 234	536 100	1 199 217	483 100	9 22	10 28	9 25	10 34	9 22	10 26	10 22	12 29	10 24	11 27	1751 1752
2 320	908	2 231	907	6	8	6	9	6	10	7	8	5	8	1761
2 299	980	1 982	755	7	9	9	11	8	10	7	11	7	9	1771
72	30	*58	*25	36	33	36	23	35	36	40	38	45	45	1781
														179
638 316 1 060 43 836 1 165	249 142 421 17 367 516	573 326 954 46 899 1 061	219 149 347 20 399 436	8 12 8 (W) 4 14	5 15 11 (W) 3 15	9 11 9 (W) 3 14	7 8 12 (W) 3 18	7 13 8 (W) 3 13	5 18 11 (W) 4 16	8 13 8 (W) 4 15	5 20 11 (W) 3 18	8 10 9 (W) 4 17	6 13 12 (W) 3 16	1791 1793 1794 1795 1796 1799
19	*6	21	7	38	43	42	47	39	45	37	42	34	38	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers -----	8.8	18.2	1 706.2	101.9	.220	.350	.234	.015
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.5	13.2	1 401.1	104.0	.153	.413	.253	.007
1522	Other residential buildings -----	8.8	16.2	1 512.3	129.3	.152	.235	.437	.007
1531	Operative builders -----	5.8	21.6	1 666.7	470.7	.097	.349	.451	.004
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	30.0	23.3	1 978.7	161.5	.182	.280	.485	.014
1542	Nonresidential buildings, n.e.c. -----	16.8	19.6	1 809.5	170.9	.147	.246	.500	.010
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	29.1	23.6	1 760.4	149.5	.185	.427	.158	.023
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	25.7	22.2	2 007.1	126.9	.205	.464	.211	.015
1623	Water, sewer, and utility lines -----	14.2	17.7	1 804.5	89.8	.235	.332	.137	.031
1629	Heavy construction, n.e.c. -----	10.1	17.2	1 618.6	89.2	.233	.321	.142	.042
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	8.6	18.1	1 838.9	84.6	.271	.408	.091	.011
1721	Painting and paper hanging -----	5.9	16.4	1 578.9	52.1	.359	.212	.056	.015
1731	Electrical work -----	9.2	19.6	1 831.6	73.9	.330	.398	.060	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	6.0	12.8	1 391.3	40.2	.358	(D)	.071	.020
1742	Plastering, drywall, and insulation work -----	18.8	17.6	1 692.5	59.3	.338	.365	.078	.009
1743	Terrazzo, tile, marble, and mosaic work -----	5.3	21.5	1 873.3	95.6	.277	.428	.015	.004
175	Carpentry and floor work:								
1751	Carpentry -----	3.9	13.5	1 627.8	50.9	.302	.364	.084	.008
1752	Floor laying and other floor work -----	3.7	12.4	1 721.5	52.8	.302	.372	.011	.005
1761	Roofing, siding, and sheet metal work -----	8.5	15.6	1 540.9	69.2	.279	.402	.071	.010
1771	Concrete work -----	8.0	13.2	1 533.2	58.9	.266	.385	.076	.020
1781	Water well drilling -----	*2.9	9.7	1 700.0	47.1	.241	(D)	.009	.012
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	16.0	21.0	1 490.9	91.2	.281	.343	.050	.019
1793	Glass and glazing work -----	8.0	20.4	1 787.4	111.4	.267	.496	.013	.015
1794	Excavation work -----	5.2	16.6	1 522.4	78.5	.252	.293	.053	.065
1795	Wrecking and demolition work -----	6.5	13.8	1 636.4	66.2	.247	(D)	.051	.100
1796	Installing building equipment, n.e.c. -----	20.1	23.9	1 711.7	84.3	.364	.347	.079	.012
1799	Special trade contractors, n.e.c. -----	5.4	15.0	1 685.7	60.3	.307	.337	.055	.014
6552	Land subdividers and developers, n.e.c. -----	2.9	15.6	*1 388.9	356.8	.265	.184	.303	.005

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see Introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CINCINNATI-HAMILTON, OH-KY- IN CMSA											
	Construction industries and land subdividers and developers	3 752	36 829	791 884	3 628 799	2 554 973	1 542 067	1 088 896	1 073 826	58 041	1	1
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	516	2 452	38 502	266 254	187 782	94 866	102 028	78 473	3 324	7	11
522	Other residential buildings	73	377	6 628	36 418	21 528	11 027	13 378	14 890	*516	19	15
531	Operative builders	168	1 630	40 069	491 133	239 320	109 864	145 860	251 813	9 263	11	9
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	95	1 224	31 380	233 041	98 818	58 461	48 473	134 222	2 374	7	8
542	Nonresidential buildings, n.e.c.	227	3 675	81 186	662 884	248 693	153 773	99 550	414 191	2 790	5	4
16	Heavy construction other than building construction—contractors:											
611	Highway and street construction	70	1 698	47 396	233 754	182 597	103 352	86 463	51 157	7 190	3	3
62	Heavy construction, except highway:											
622	Bridge, tunnel, and elevated highway construction	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
623	Water, sewer, and utility lines	31	597	13 751	59 735	52 300	30 017	22 673	7 434	2 953	3	6
629	Heavy construction, n.e.c.	52	1 043	28 486	90 915	81 897	56 185	26 078	9 018	2 088	5	5
7	Special trade contractors:											
711	Plumbing, heating, and air- conditioning	514	4 660	111 391	370 344	333 469	192 868	143 390	36 874	6 395	3	2
721	Painting and paper hanging	243	1 379	22 404	59 400	57 490	47 824	(D)	1 910	549	7	11
731	Electrical work	320	2 979	67 427	195 503	191 374	113 507	81 064	4 130	2 160	3	3
74	Masonry, stonework, tile setting, and plastering:											
741	Masonry, stone setting, and other stonework	190	1 611	26 892	75 298	72 964	49 651	23 323	2 335	1 763	8	6
742	Plastering, drywall, and insulation work	137	1 862	40 387	108 216	99 942	59 651	41 984	8 274	1 908	10	6
743	Terrazzo, tile, marble, and mosaic work	35	131	3 166	11 687	11 295	5 905	5 692	392	95	12	10
75	Carpentry and floor work:											
751	Carpentry	253	1 447	21 253	63 421	57 155	35 190	26 532	6 266	487	11	8
752	Floor laying and other floorwork	54	493	10 560	38 357	37 714	22 752	16 444	643	655	11	6
761	Roofing, siding, and sheet metal work	181	1 721	30 311	107 516	101 842	61 243	42 209	5 675	908	5	4
771	Concrete work	183	3 252	71 392	221 175	198 721	123 033	77 740	22 454	4 215	3	2
781	Water well drilling	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
79	Miscellaneous special trade contractors:											
791	Structural steel erection	23	509	10 508	28 505	26 562	21 062	(D)	1 943	366	4	3
793	Glass and glazing work	40	268	5 251	18 666	18 537	10 064	8 712	129	308	15	14
794	Excavation work	116	890	16 670	61 741	59 481	50 986	10 697	2 259	4 496	9	8
795	Wrecking and demolition work	9	(D)	(D)	(D)	18 564	(D)	1 556	(D)	(D)	(D)	(W)
796	Installing building equipment, n.e.c.	37	1 073	36 365	82 002	76 894	57 547	20 828	5 108	507	2	3
799	Special trade contractors, n.e.c.	142	1 261	22 072	70 664	67 440	48 364	21 293	3 224	1 882	11	10
552	Land subdividers and developers, n.e.c.	38	(D)	(D)	10 642	4 663	3 090	*1 747	5 979	(D)	(D)	38
	CINCINNATI, OH-KY-IN PMSA											
	Construction industries and land subdividers and developers	3 141	30 460	652 671	3 080 465	2 119 991	1 268 913	910 966	960 474	48 608	1	1
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
52	General contractors, residential buildings:											
521	Single-family houses	417	2 054	33 083	218 713	158 841	80 810	85 370	59 873	2 677	8	12
522	Other residential buildings	64	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
531	Operative builders	136	1 295	33 496	406 837	189 067	78 829	120 087	217 771	8 939	8	9
54	General contractors, nonresidential buildings:											
541	Industrial buildings and warehouses	84	1 035	26 653	(D)	88 855	52 377	(D)	(D)	(D)	7	9
542	Nonresidential buildings, n.e.c.	197	3 359	74 867	626 942	229 698	142 841	90 783	397 245	2 348	5	4

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	CINCINNATI, OH-KY-IN PMSA— Con.											
	Construction Industries and land subdividers and developers—Con.											
15,16, 17 16	Construction Industries—Con.											
	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	56	1 231	34 800	187 970	143 096	78 391	(D)	44 874	5 381	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	27	528	12 089	(D)	46 365	26 349	(D)	(D)	(D)	4	7
1629	Heavy construction, n.e.c. -----	45	736	20 097	71 714	63 446	43 305	(D)	8 268	(D)	6	6
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	438	4 280	102 857	340 828	305 707	177 902	(D)	35 120	6 112	3	2
1721	Painting and paper hanging-----	208	1 152	18 794	51 551	49 730	41 149	(D)	1 821	378	9	13
1731	Electrical work -----	254	2 551	58 272	163 403	160 103	95 801	(D)	3 300	1 855	3	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	159	1 307	20 760	54 782	52 582	35 676	16 917	2 200	(D)	10	6
1742	Plastering, drywall, and insulation work -----	119	1 649	36 497	97 140	89 955	53 992	(D)	7 185	1 815	11	7
1743	Terrazzo, tile, marble, and mosaic work -----	28	122	3 063	11 238	(D)	5 621	5 530	(D)	(D)	13	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	228	1 319	19 397	58 795	52 914	32 790	24 157	5 881	362	12	9
1752	Floor laying and other floorwork-----	38	407	9 496	34 993	34 466	20 492	15 456	527	439	10	6
1761	Roofing, siding, and sheet metal work -----	151	1 500	26 908	93 662	88 977	53 808	36 576	4 686	820	4	4
1771	Concrete work -----	160	1 561	29 394	101 086	(D)	52 769	(D)	(D)	2 038	6	(D)
1781	Water well drilling -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	18	307	4 864	13 225	11 899	9 492	(D)	1 326	(D)	8	7
1793	Glass and glazing work -----	37	248	4 861	16 912	(D)	9 103	7 927	(D)	(D)	16	(D)
1794	Excavation work -----	78	711	13 760	52 961	50 835	44 148	8 863	2 126	4 134	9	9
1795	Wrecking and demolition work -----	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	34	(D)	35 909	80 526	(D)	56 552	20 553	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	123	1 190	21 181	67 983	64 792	46 344	(D)	3 191	(D)	11	10
6552	Land subdividers and developers, n.e.c. -----	*32	*77	1 461	*7 732	*3 302	*2 029	(D)	4 430	*55	46	56
	HAMILTON-MIDDLETOWN, OH PMSA											
	Construction Industries and land subdividers and developers-----	611	6 369	139 213	548 334	434 982	273 155	177 929	113 353	9 433	3	3
	(See appropriate State for SIC detail.)											
	LOUISVILLE, KY-IN MSA											
	Construction Industries and land subdividers and developers-----	2 027	21 347	406 218	1 709 570	1 325 233	767 572	599 246	384 337	29 114	2	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	254	918	14 589	86 981	66 183	29 888	38 494	20 798	648	10	17
1522	Other residential buildings -----	31	604	11 953	73 523	37 318	22 332	15 033	36 205	*793	10	14
1531	Operative builders -----	98	443	9 211	97 004	60 067	*14 091	47 132	36 937	*1 296	21	21
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	35	1 039	23 934	121 986	74 999	33 492	44 018	46 987	2 390	7	8
1542	Nonresidential buildings, n.e.c. -----	76	1 794	36 703	284 745	141 891	73 755	(D)	142 854	1 793	3	2

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	LOUISVILLE, KY-IN MSA—Con.											
15,16, 17 16	Construction industries and land subdividers and developers—Con. Construction industries—Con. Heavy construction other than building construction—contractors:											
1611	Highway and street construction	37	1 000	24 103	118 050	96 231	63 253	40 261	21 819	2 895	4	3
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	8	190	4 606	17 656	14 155	8 098	6 057	3 501	(D)	6	5
1623	Water, sewer, and utility lines	27	490	9 180	37 606	33 609	20 845	(D)	3 997	1 303	12	11
1629	Heavy construction, n.e.c.	34	528	9 083	32 778	28 171	19 860	9 122	4 607	1 205	12	8
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	335	3 699	70 709	258 650	233 631	138 454	97 374	25 019	3 837	4	3
1721	Painting and paper hanging	108	885	15 450	34 972	33 099	24 764	(D)	1 873	755	9	5
1731	Electrical work	175	1 974	43 226	118 678	109 339	64 326	45 792	9 339	1 717	4	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	78	777	12 489	35 264	32 408	22 725	11 785	2 855	624	8	4
1742	Plastering, drywall, and insulation work	75	1 313	21 717	70 796	65 710	40 124	(D)	5 086	971	12	13
1743	Terrazzo, tile, marble, and mosaic work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork	33	160	2 268	6 449	6 350	4 553	*1 823	99	(S)	33	36
1761	Roofing, siding, and sheet metal work	113	1 205	21 244	68 702	63 840	38 360	26 868	4 862	2 202	7	5
1771	Concrete work	124	1 266	17 255	66 585	60 597	35 430	27 850	5 988	2 723	10	8
1781	Water well drilling	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*15	262	7 060	17 207	16 578	13 048	(D)	629	(D)	9	21
1793	Glass and glazing work	19	239	5 283	18 958	18 678	11 511	9 022	280	177	17	24
1794	Excavation work	48	325	5 544	20 880	19 499	11 184	8 369	1 381	388	16	15
1795	Wrecking and demolition work	5	(D)	(D)	(D)	(D)	(D)	290	(D)	78	(D)	(D)
1796	Installing building equipment, n.e.c.	25	535	14 573	40 982	37 202	27 803	(D)	3 781	728	5	3
1799	Special trade contractors, n.e.c.	97	703	10 678	28 094	27 247	17 956	10 153	847	*141	23	23
6552	Land subdividers and developers, n.e.c.	19	70	1 255	4 162	3 191	2 508	744	971	42	20	25



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Mississippi

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Mississippi. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 17,342 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$3.2 billion in total value of business done.

Most of the 17,342 construction establishments were small. Of the total, 13,482 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,577 construction establishments with 5 employees or more, while representing only 9 percent of all establishments, accounted for more than 71 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.63 billion on total dollar value of business done. Of this amount, \$2.56 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$619 million, leaving net value of construction work of \$1.9 billion. In addition, these establishments paid out \$984 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.1 billion. (See Introduction and appendices for explanation of terms.)

There were 3,860 establishments with total employment averaging 32,450 during the year. Total payroll for 1987 was \$523 million. Total hours worked by construction workers during the year were 46.2 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 13,482 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$520 million. Most of these establishments, about 76 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

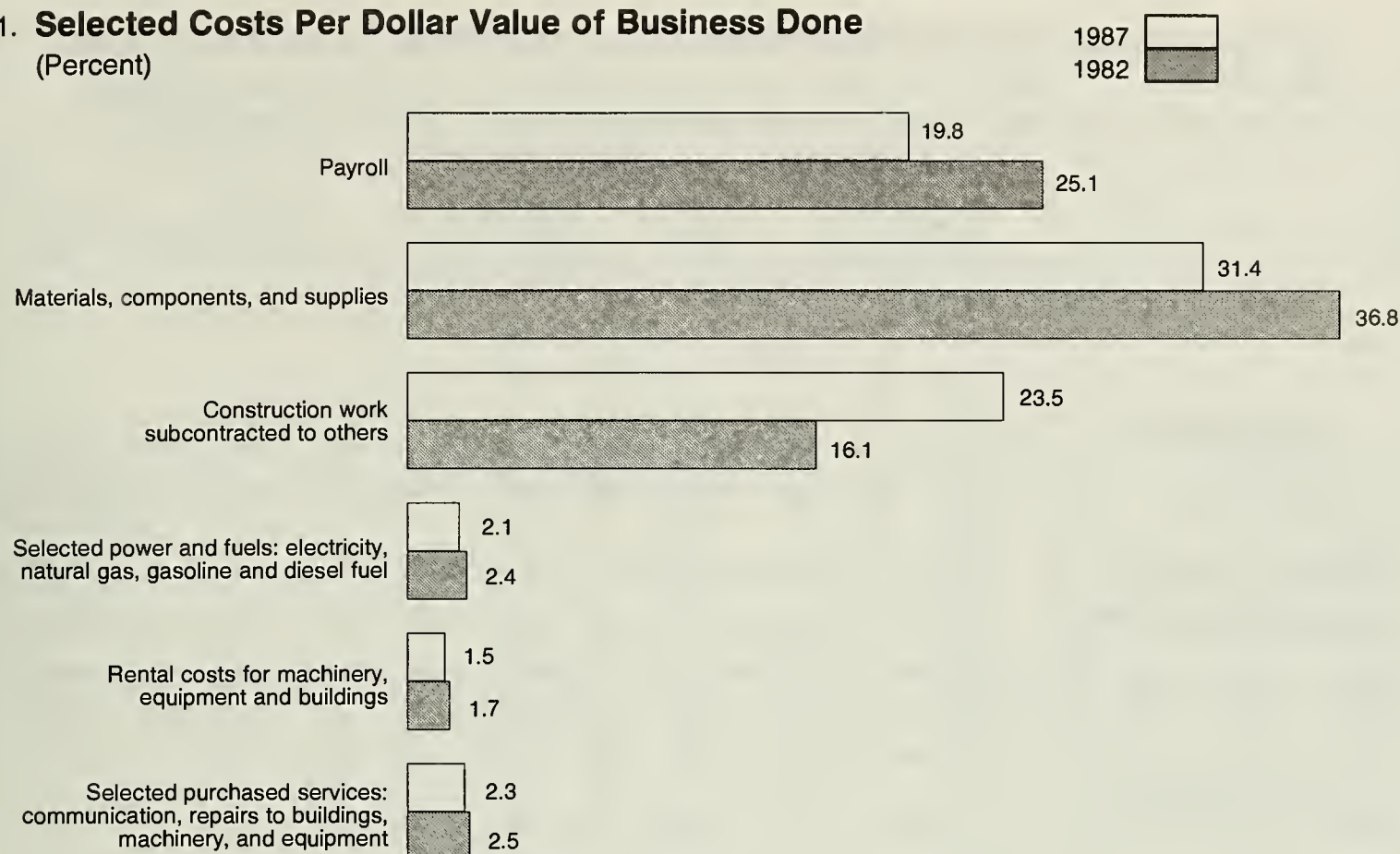


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

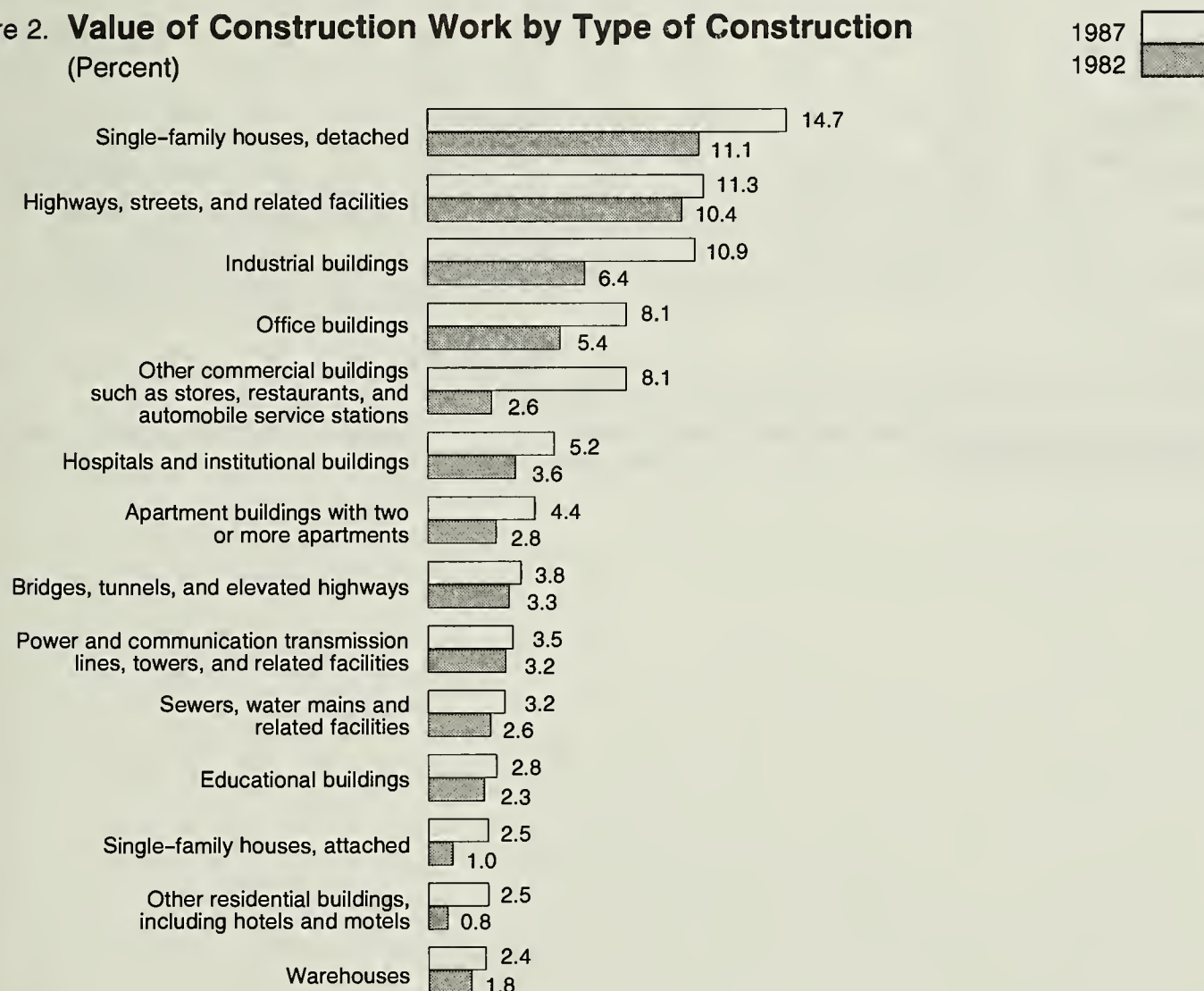


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers -----	17 342	14 419	32 450	3 153 869	13 482	13 334	520 037	3 860	1 085	32 450	2 633 842	1	2
15, 16, 17	Construction Industries -----	16 974	14 114	32 350	3 091 344	13 166	13 034	476 749	3 808	1 080	32 350	2 614 595	1	2
15	Building construction—General contractors and operative builders ----	3 749	2 682	9 094	1 310 423	2 556	2 407	192 974	1 193	275	9 094	1 117 449	3	4
16	Heavy construction other than building construction— contractors -----	678	367	8 672	687 317	299	294	23 158	379	73	8 672	664 159	3	2
17	Special trade contractors -----	12 547	11 065	14 584	1 093 604	10 311	10 333	260 617	2 236	732	14 584	832 987	2	3
1711	Plumbing, heating, and air-conditioning --	1 542	1 159	3 757	300 768	1 001	1 001	38 359	541	158	3 757	262 409	4	4
1731	Electrical work -----	1 076	850	2 277	149 854	746	746	21 113	330	104	2 277	128 741	6	5
6552	Land subdividers and developers, n.e.c.² -----	361	300	88	62 525	316	300	43 288	45	-	88	*19 237	31	60
	1982													
	Construction Industries and land subdividers and developers -----	11 191	9 100	37 278	2 562 651	7 625	7 578	247 087	3 566	1 522	37 278	2 315 564	1	1
15, 16, 17	Construction Industries -----	11 010	8 986	37 024	(D)	7 481	7 473	234 668	3 529	1 513	37 024	(D)	1	(D)
15	Building construction—General contractors and operative builders ----	2 378	1 693	7 548	(D)	1 407	1 353	89 241	971	340	7 548	(D)	4	(D)
16	Heavy construction other than building construction— contractors -----	462	266	14 991	1 113 441	148	151	12 498	314	115	14 991	1 100 943	1	1
17	Special trade contractors -----	8 170	7 027	14 485	772 562	5 926	5 969	132 929	2 244	1 058	14 485	639 633	3	2
1711	Plumbing, heating, and air-conditioning --	1 094	839	3 451	200 981	583	590	17 933	511	249	3 451	183 048	5	4
1731	Electrical work -----	697	534	1 974	100 576	401	415	11 532	296	119	1 974	89 044	7	6
6552	Land subdividers and developers, n.e.c.² -----	174	111	249	(D)	144	105	12 419	30	(S)	249	(D)	4	(D)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	17 342	14 419	32 450	3 153 879	13 482	13 334	520 037	3 860	1 085	32 450	2 633 842	1	2
\$10,000,000 or more -----	36	-	6 914	755 794	-	-	-	36	-	6 914	755 794	(W)	(W)
\$5,000,000 to \$9,999,999 -----	49	1	2 748	(D)	1	-	(D)	48	1	2 748	325 067	2	3
\$2,500,000 to \$4,999,999 -----	109	7	3 278	709 227	3	3	17 551	106	4	3 278	366 609	3	11
\$1,000,000 to \$2,499,999 -----	333	60	5 739	515 907	27	25	37 216	306	35	5 739	478 691	5	6
\$500,000 to \$999,999 -----	471	126	4 094	322 062	75	65	51 458	396	61	4 094	270 604	7	8
 \$250,000 to \$499,999 -----	 776	 356	 3 141	 274 889	 235	 204	 80 051	 541	 152	 3 141	 194 838	 10	 9
\$100,000 to \$249,999 -----	1 840	1 161	4 131	295 490	761	728	116 630	1 079	433	4 131	178 860	8	6
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	1 160	1 140	80 806	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	1 659	1 656	58 917	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000 -----	 (S)	 (S)	 (S)	 (S)	 9 561	 9 513	 77 408	 (S)	 (S)	 (S)	 (S)	 (S)	 (S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	3 174	3 167	50 087	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	2 511	2 492	18 229	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	1 697	1 691	6 166	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	2 179	2 163	2 925	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	11 191	9 100	37 278	2 562 651	7 625	7 578	247 087	3 566	1 522	37 278	2 315 564	1	1
\$10,000,000 or more -----	21	4	12 164	935 115	-	-	-	21	4	12 164	935 115	(W)	(W)
\$5,000,000 to \$9,999,999 -----	39	7	2 913	(D)	1	2	(D)	38	5	2 913	(D)	(W)	(D)
\$2,500,000 to \$4,999,999 -----	74	3	3 405	(D)	1	1	(D)	73	2	3 405	508 196	(W)	(W)
\$1,000,000 to \$2,499,999 -----	231	27	5 185	856 109	8	6	22 530	223	21	5 185	325 383	4	5
\$500,000 to \$999,999 -----	313	91	3 474	220 835	26	30	17 662	287	61	3 474	203 173	8	9
 \$250,000 to \$499,999 -----	 503	 219	 2 806	 175 557	 111	 92	 37 471	 392	 127	 2 806	 138 086	 9	 7
\$100,000 to \$249,999 -----	1 220	738	3 986	191 592	344	329	52 477	876	409	3 986	139 115	8	6
\$50,000 to \$99,999 -----	1 203	940	1 725	84 496	597	604	41 055	606	336	1 725	43 441	8	7
\$25,000 to \$49,999 -----	1 362	1 170	882	47 745	914	918	31 650	448	252	882	16 095	11	9
 Less than \$25,000 -----	 6 223	 5 900	 736	 51 200	 5 623	 5 596	 44 242	 600	 304	 736	 6 958	 9	 9
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	1 826	1 818	27 927	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	1 667	1 654	11 289	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	1 454	1 448	4 350	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	676	676	676	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	3 860	32 450	26 649	522 811	390 641	46 216	2 557 272	1 937 885
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	623	2 359	1 926	26 046	19 586	2 709	170 528	128 364
1522	Other residential buildings-----	50	436	356	5 885	3 681	522	66 271	30 197
1531	Operative builders-----	151	789	389	14 682	5 515	818	174 143	114 893
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	88	1 204	958	20 262	14 394	1 711	144 574	96 588
1542	Nonresidential buildings, n.e.c.-----	281	4 306	3 404	73 677	53 012	5 763	532 056	268 496
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction-----	107	3 369	2 861	58 285	46 233	5 537	298 284	253 326
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	20	973	876	19 289	15 952	1 764	102 676	72 360
1623	Water, sewer, and utility lines-----	74	2 583	2 290	42 459	31 815	4 027	142 412	127 291
1629	Heavy construction, n.e.c.-----	178	1 747	1 544	30 612	26 188	2 705	96 986	85 979
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning-----	541	3 757	3 007	65 677	49 358	5 716	259 435	233 427
1721	Painting and paper hanging-----	130	815	719	11 036	9 119	1 134	30 614	28 024
1731	Electrical work-----	330	2 277	1 804	41 094	30 239	2 921	126 990	121 901
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	200	877	796	7 582	6 785	1 311	22 666	18 116
1742	Plastering, drywall, and insulation work-----	84	1 008	840	17 206	12 519	1 582	52 494	50 408
1743	Terrazzo, tile, marble, and mosaic work-----	*22	56	49	629	518	75	2 982	2 845
175	Carpentry and floor work:								
1751	Carpentry-----	238	723	621	8 013	6 612	1 104	27 141	25 232
1752	Floor laying and other floor work-----	57	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work-----	208	1 439	1 156	21 969	14 442	1 618	83 340	79 649
1771	Concrete work-----	125	832	724	7 928	6 285	798	28 282	26 569
1781	Water well drilling-----	40	389	297	5 666	3 745	615	25 398	24 584
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	43	481	408	7 310	5 760	738	21 031	18 557
1793	Glass and glazing work-----	12	74	53	1 271	976	98	(D)	6 409
1794	Excavation work-----	59	572	479	9 616	8 004	841	36 696	32 331
1795	Wrecking and demolition work-----	(S)	*81	*68	1 496	1 176	*130	2 861	2 661
1796	Installing building equipment, n.e.c.-----	29	436	368	11 321	8 923	784	41 979	38 826
1799	Special trade contractors, n.e.c.-----	109	663	561	11 219	8 786	1 057	40 077	37 132
6552	Land subdividers and developers, n.e.c.-----	45	88	*11	*1 548	*215	(S)	*13 153	*6 626

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 109 665	884 093	619 386	38 726	54 648	501 372	37 278	2 253 837	1 022 752	1	2	4	15, 16, 17
												15
71 139	63 567	42 164	1 566	2 433	20 868	2 755	155 753	59 913	9	10	28	152
18 085	12 215	36 074	537	179	3 207	597	47 806	17 299	24	20	25	1521
												1522
57 413	61 375	59 249	788	1 386	21 696	426	35 470	11 560	15	20	34	1531
40 221	56 473	47 985	836	*441	7 911	1 466	113 693	38 412	9	7	42	154
126 783	144 201	263 559	5 695	4 217	38 987	2 304	190 297	48 596	6	5	24	1541
												1542
												16
153 945	114 180	44 957	8 078	12 653	120 339	2 723	197 021	96 630	4	4	11	1611
40 007	32 988	30 316	2 517	2 769	23 320	899	80 983	28 867	8	11	5	162
88 670	43 046	15 120	4 518	9 188	104 264	3 009	111 097	50 860	3	4	5	1622
56 003	33 918	11 007	3 223	3 110	24 957	8 360	695 478	307 878	9	7	17	1623
												1629
												17
129 664	106 737	26 007	2 090	7 472	33 706	3 451	177 164	89 534	4	4	17	1711
21 099	7 037	2 590	297	*270	*5 325	798	23 169	16 395	10	11	47	1721
72 997	50 654	5 089	1 556	1 637	13 105	1 974	84 181	46 226	6	5	24	1731
13 031	5 085	*4 550	*698	*456	2 666	510	7 791	5 338	11	16	47	174
30 471	21 426	2 085	342	1 028	10 556	699	34 752	20 173	7	7	12	1741
1 466	(D)	*137	47	*94	*1 002	111	3 375	1 710	29	39	71	1742
												1743
15 103	10 229	1 909	233	287	2 118	830	22 485	11 733	16	16	23	175
(S)	(S)	(S)	(S)	(S)	(S)	129	5 524	2 807	(S)	(S)	(S)	1751
												1752
41 832	40 437	3 691	993	1 118	11 032	1 158	39 653	21 150	8	7	22	1761
16 829	9 913	1 713	427	611	*3 014	682	29 874	16 814	15	14	33	1771
12 382	13 126	813	249	776	14 740	277	24 050	14 413	18	12	29	1781
12 946	7 030	*2 474	*434	169	4 353	845	30 410	19 290	14	18	35	179
3 277	3 263	(D)	80	*15	*231	168	7 755	4 671	23	31	61	1791
22 947	9 766	4 364	1 882	2 262	15 565	1 270	70 697	54 622	18	15	13	1793
2 675	*877	200	*307	*178	*1 680	—	—	—	53	32	50	1794
25 837	13 249	3 153	604	809	*7 423	294	16 639	9 843	4	28	12	1795
26 048	14 455	2 945	563	559	4 115	1 289	40 671	23 471	18	18	37	1796
												1799
*5 132	*3 816	*6 527	(S)	(S)	4 568	249	8 046	4 539	31	50	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	3 860	3 566	4 313	4 210	1	3	4	4
Proprietors and working partners	1 085	1 522	2 681	3 287	7	5	6	6
All employees**	32 450	37 278	34 137	35 891	1	1	2	3
Construction workers:								
March	24 409	30 570	27 045	28 098	2	1	2	3
May	26 743	32 771	30 856	30 563	2	2	2	3
August	28 602	33 583	31 980	35 142	2	2	2	3
November	26 841	31 823	28 680	32 027	2	1	2	3
Average	26 649	32 448	29 662	31 934	2	1	2	3
Other employees:								
March	5 737	4 795	4 409	3 822	2	3	3	4
May	5 774	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	5 892	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	5 801	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	5 801	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	10 000	13 279	(NA)	(NA)	2	2	(NA)	(NA)
April to June	11 641	15 262	(NA)	(NA)	2	1	(NA)	(NA)
July to September	12 713	16 119	(NA)	(NA)	2	2	(NA)	(NA)
October to December	11 860	15 144	(NA)	(NA)	2	1	(NA)	(NA)
Total hours worked	46 216	59 805	(NA)	(NA)	2	1	(NA)	(NA)
Payroll, all employees	522 811	582 257	296 835	225 426	1	1	1	2
Payroll, construction workers	390 641	496 607	238 507	188 924	1	1	1	2
Payroll, other employees	132 170	85 650	58 328	36 502	2	2	2	3
First quarter payroll, all employees	111 427	125 669	60 996	(NA)	2	1	1	(NA)
Employer costs for fringe benefits, all employees	91 811	121 937	44 472	(NA)	2	1	2	(NA)
Legally required expenditures	71 745	83 256	32 378	(NA)	2	1	2	(NA)
Voluntary expenditures	20 066	38 681	12 094	(NA)	3	1	1	(NA)
Dollar value of business done	2 633 842	2 315 564	1 352 423	1 049 203	2	1	2	3
Value of construction work ¹	2 557 272	2 253 837	1 301 403	1 016 035	2	1	2	3
Value of construction work subcontracted in from others	505 368	368 385	250 358	160 269	4	3	3	4
Land receipts ²	20 697	11 263	(NA)	(NA)	19	15	(NA)	(NA)
Other business receipts	55 872	50 464	51 020	33 168	8	3	4	11
Net value of construction†	1 937 885	1 880 305	1 059 434	804 556	2	1	2	3
Value added††	1 109 665	1 022 752	568 859	428 887	2	1	2	3
Selected costs	1 503 479	1 281 549	766 934	603 339	2	1	3	4
Materials, components, and supplies ³	828 013	852 679	493 188	391 860	2	1	3	3
Construction work subcontracted to others	619 386	373 532	241 969	211 479	3	2	3	6
Selected power, fuels, and lubricants	56 079	55 337	31 777	(NA)	2	2	2	(NA)
Electricity	7 633	7 062	3 480	(NA)	3	2	3	(NA)
Natural gas	3 127	1 430	1 305	(NA)	3	7	6	(NA)
Gasoline and diesel fuel	41 899	41 984	23 701	(NA)	2	2	2	(NA)
On highway use	30 874	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	11 024	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	3 419	4 861	3 292	(NA)	3	2	4	(NA)
Rental cost for machinery, equipment, and buildings	38 726	39 426	16 445	(NA)	4	1	3	(NA)
For machinery and equipment	30 964	34 551	14 457	16 999	4	2	3	5
For buildings	7 762	4 875	1 989	(NA)	6	4	5	(NA)
Selected purchased services	60 730	57 159	35 110	(NA)	3	1	2	(NA)
Communication services	11 247	10 255	6 327	(NA)	4	3	4	(NA)
Repairs to buildings and other structures	2 930	2 139	1 316	(NA)	11	7	6	(NA)
Repairs to machinery and equipment	46 552	44 763	27 468	(NA)	3	1	2	(NA)
Ownership of construction projects:								
Value of construction work	2 557 272	2 253 837	1 301 403	1 016 035	2	1	2	3
Government owned	799 978	589 868	421 497	357 644	4	3	2	3
Federal	358 555	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
State and local	441 423	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Privately owned	1 757 293	1 663 968	879 906	658 391	3	2	3	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	475 637	458 966	3	2
Capital expenditures, other than land -----	54 648	50 080	4	3
New -----	40 336	36 208	5	2
Used -----	14 312	13 871	9	7
Retirements and disposition of depreciable assets -----	28 913	20 687	20	4
End-of-year gross book value of depreciable assets -----	501 372	488 359	3	2
Depreciation charges during year -----	55 105	63 918	3	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	94 129	61 873	8	5
Capital expenditures, other than land -----	8 492	5 728	12	3
New buildings and other structures -----	6 231	3 978	14	4
Used buildings and other structures -----	2 261	1 749	20	4
Retirements and disposition of depreciable assets -----	2 705	1 019	29	8
End-of-year gross book value of depreciable assets -----	99 915	66 582	8	5
Depreciation charges during year -----	7 871	5 968	8	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	381 508	397 092	3	2
Capital expenditures, other than land -----	46 155	44 352	5	3
New machinery and equipment, including automobiles and trucks -----	34 105	32 230	5	3
New automobiles and trucks, intended primarily for highway use -----	17 528	9 907	5	6
Used machinery and equipment, including automobiles and trucks -----	12 050	12 122	9	8
Retirements and disposition of depreciable assets -----	26 207	19 667	22	4
End-of-year gross book value of depreciable assets -----	401 456	421 777	3	2
Depreciation charges during year -----	47 233	57 950	3	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	3 860	1
Value of construction work	2 557 272	2
Establishments with inventories:		
Number	1 203	6
Value of construction work	1 188 413	5
Inventories ¹ :		
End of 1987, materials and supplies	34 855	10
End of 1986, materials and supplies	31 219	5
Establishments with no inventories:		
Number	1 907	5
Value of construction work	922 247	4
Establishments not reporting:		
Number	750	9
Value of construction work	446 612	8

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments	3 860	(S)	824	442	228	55	19	7	2	-	
All employees**	32 450	(S)	5 236	5 831	6 768	3 797	2 936	3 626	(D)	-	
Payroll, all employees	522 811	(S)	66 443	86 896	120 509	69 921	58 096	71 077	(D)	-	
Construction worker hours (thousands)	46 216	(S)	6 240	8 651	9 276	5 965	5 403	5 894	(D)	-	
Dollar value business done	2 633 842	(S)	296 711	389 964	615 107	359 286	320 478	271 427	(D)	-	
Value of construction work ¹	2 557 272	(S)	283 391	382 861	603 214	663 652	(D)	263 837	(D)	-	
Net value of construction work†	1 937 885	(S)	231 855	304 672	438 317	247 624	203 063	222 403	(D)	-	
Value added††	1 109 665	(S)	138 803	167 801	396 406	(D)	111 845	131 684	(D)	-	
Cost of materials, components, supplies, and fuels	884 093	(S)	102 940	142 331	203 902	201 942	(D)	98 309	(D)	-	
Cost of construction work subcontracted to others	619 386	(S)	51 535	78 188	164 897	212 965	(D)	41 434	(D)	-	
Rental cost for machinery, equipment, and buildings	38 726	(S)	3 938	6 888	8 319	7 226	2 914	5 899	(D)	-	
Capital expenditures, other than land	54 648	(S)	6 646	7 008	9 496	7 106	3 810	12 749	(D)	-	
End-of-year gross book value of depreciable assets	501 372	(S)	45 113	74 077	91 908	55 146	74 592	103 640	(D)	-	
1982											
All employees**	37 278	4 426	4 367	5 004	6 220	3 546	4 339	(D)	9 375	(D)	
Value of construction work ¹	2 253 837	205 279	196 356	246 762	379 905	257 739	259 790	(D)	708 005	(D)	
Value added††	1 022 752	91 754	96 264	114 426	172 390	115 215	432 702	(D)	(D)	(D)	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	7	7	4	(W)	(W)	(W)	(D)	-	
Net value of construction work†	2	(S)	8	6	4	(W)	(W)	(W)	(D)	-	
Capital expenditures, other than land	4	(S)	20	16	13	4	(W)	(W)	(D)	-	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									\$10,000,000 or more
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	
1987											
Number of establishments -----	3 860	(S)	(S)	(S)	1 079	541	396	306	106	48	36
All employees** -----	32 450	(S)	(S)	(S)	4 131	3 141	4 094	5 739	3 278	2 748	6 914
Payroll, all employees -----	522 811	(S)	(S)	(S)	46 376	40 814	62 901	98 424	64 579	53 405	139 177
Construction worker hours (thousands) -----	46 216	(S)	(S)	(S)	5 145	4 151	5 269	8 771	4 691	4 155	11 559
Dollar value of business done -----	2 633 842	(S)	(S)	(S)	178 860	194 838	270 604	478 691	366 609	325 067	755 794
Value of construction work ¹ -----	2 557 272	(S)	(S)	(S)	175 861	183 063	263 667	467 085	346 854	318 252	740 105
Net value of construction work† -----	1 937 885	(S)	(S)	(S)	157 989	155 857	219 052	375 828	<u>484 787</u>	(D)	486 399
Value added†† -----	1 109 665	(S)	(S)	(S)	93 544	92 484	119 766	207 336	152 914	133 565	272 404
Cost of materials, components, supplies, and fuels -----	884 093	(S)	(S)	(S)	67 195	72 022	103 290	176 452	116 172	<u>328 107</u>	(D)
Cost of construction work subcontracted to others -----	619 386	(S)	(S)	(S)	17 872	27 206	44 615	91 256	<u>180 318</u>	(D)	253 706
Rental cost for machinery, equipment, and buildings -----	38 726	(S)	(S)	(S)	2 359	2 529	3 814	7 531	6 087	5 661	10 160
Capital expenditures, other than land -----	54 648	(S)	(S)	(S)	5 677	4 022	6 039	9 155	6 040	5 771	16 606
End-of-year gross book value of depreciable assets -----	501 372	(S)	(S)	(S)	39 309	35 555	52 213	87 549	55 528	42 482	178 482
1982											
All employees** -----	37 278	736	882	1 725	3 986	2 806	3 474	5 185	3 405	2 913	12 164
Value of construction work ¹ -----	2 253 837	6 849	15 905	42 544	136 664	134 791	196 028	309 146	239 758	245 580	926 569
Value added†† -----	1 022 752	3 719	9 253	23 185	71 578	62 723	88 868	148 043	102 126	112 852	400 402
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	8	10	7	5	3	2	(W)
Net value of construction work† -----	2	(S)	(S)	(S)	6	9	8	6	9	(D)	(W)
Capital expenditures, other than land -----	4	(S)	(S)	(S)	(S)	22	23	16	11	3	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	2 557 272	1 639 630	475 632	321 784	2	2	3	3
Building construction	1 701 203	1 167 077	374 747	153 042	3	3	4	6
Single-family houses	438 887	323 981	72 932	41 974	8	10	8	10
Single-family houses, detached	376 114	270 222	66 981	38 910	7	10	9	10
Single-family houses, attached	62 773	53 758	5 950	3 063	35	40	8	30
Apartment buildings with two or more apartments	111 765	90 305	16 403	5 056	7	8	12	19
Other residential buildings, including hotels and motels	64 587	42 758	15 764	6 064	9	13	10	24
Hotels and motels	37 628	31 502	4 301	1 823	14	17	17	15
Other residential buildings, excluding hotels and motels	26 959	11 255	11 463	4 241	10	16	7	35
Office buildings	194 179	141 786	39 076	13 316	5	6	10	7
Other commercial buildings such as stores, restaurants, and automobile service stations	206 423	139 608	44 343	22 471	5	5	9	7
Industrial buildings and warehouses	341 658	221 086	77 509	43 062	5	5	5	12
Industrial buildings	279 217	168 115	70 368	40 733	5	5	6	13
Warehouses	62 441	52 971	7 141	2 328	10	11	12	19
Religious buildings	36 359	21 141	13 349	1 868	8	11	13	12
Educational buildings	72 529	36 769	29 084	6 674	8	10	14	27
Hospitals and institutional buildings	131 957	78 626	48 132	5 198	3	3	4	9
Farm buildings	*16 339	*5 365	(S)	*1 628	64	60	(S)	69
Amusement, social, and recreational buildings	12 785	10 347	1 881	556	28	35	4	17
Other nonresidential buildings	67 398	55 305	6 929	*5 175	7	3	33	60
Land development for buildings	*6 337	(NA)	(NA)	(NA)	43	(NA)	(NA)	(NA)
Nonbuilding construction	742 181	472 553	100 885	168 742	2	3	3	4
Highways, streets, and related facilities	290 014	166 501	45 566	77 946	2	3	3	3
Parking areas including private driveways	15 189	5 996	1 714	7 477	22	32	35	12
Bridges, tunnels, and elevated highways	96 323	64 973	16 617	14 732	7	6	5	20
Conservation and development construction	16 157	(D)	(D)	*1 155	21	(D)	(D)	52
Power and communication transmission lines, towers, and related facilities	90 605	68 285	9 638	12 680	5	3	9	30
Sewers, water mains, and related facilities	81 598	60 324	7 790	13 483	9	9	21	14
Sewers, sewer lines, and related facilities	39 757	27 882	4 635	7 239	10	10	18	21
Water mains and related facilities	41 840	32 441	3 155	6 243	10	10	31	16
Blast furnaces, petroleum refineries, and chemical complexes	30 265	(D)	(D)	20 824	3	(D)	(D)	3
Sewage treatment and water treatment plants	16 010	10 927	4 688	*394	2	3	(W)	46
Earthmoving, nonbuilding	24 370	12 120	6 164	6 086	14	20	7	18
Other nonbuilding construction	81 650	61 930	5 766	13 965	14	15	16	15
Construction work, n.s.k.	113 887	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	2 253 837	1 926 221	(NA)	327 616	1	1	(NA)	2
Building construction	890 181	747 007	(NA)	143 174	2	2	(NA)	3
Single-family houses	273 273	222 453	(NA)	50 819	6	6	(NA)	6
Single-family houses, detached	250 236	202 409	(NA)	47 827	7	7	(NA)	7
Single-family houses, attached	23 036	20 044	(NA)	2 992	13	14	(NA)	24
Apartment buildings with two or more apartments	62 236	55 496	(NA)	6 739	9	10	(NA)	15
Other residential buildings, including hotels and motels	18 598	13 884	(NA)	4 714	8	10	(NA)	9
Office buildings	122 120	105 841	(NA)	16 279	3	3	(NA)	6
Other commercial buildings such as stores, restaurants, and automobile service stations	58 208	47 204	(NA)	11 004	5	5	(NA)	13
Industrial buildings and warehouses	186 101	150 924	(NA)	35 176	4	5	(NA)	6
Industrial buildings	144 455	115 555	(NA)	28 899	5	5	(NA)	6
Warehouses	41 646	35 368	(NA)	6 277	8	9	(NA)	14
Religious buildings	14 446	12 337	(NA)	2 108	14	16	(NA)	9
Educational buildings	52 165	45 068	(NA)	7 097	4	4	(NA)	12
Hospitals and institutional buildings	81 634	76 154	(NA)	5 480	4	4	(NA)	10
Farm buildings	7 759	6 383	(NA)	1 376	18	16	(NA)	21
Other nonresidential buildings	5 555	4 227	(NA)	1 327	11	15	(NA)	8
Nonbuilding construction	1 203 840	1 050 981	(NA)	152 858	1	1	(NA)	2
Highways, streets, and related facilities	234 858	151 111	(NA)	83 746	2	3	(NA)	2
Bridges, tunnels, and elevated highways	74 772	70 199	(NA)	4 573	4	4	(NA)	6
Conservation and development construction	24 899	22 777	(NA)	2 122	4	4	(NA)	26
Power and communication transmission lines, towers, and related facilities	72 003	58 017	(NA)	13 986	2	2	(NA)	7
Sewers, water mains, and related facilities	58 062	45 558	(NA)	12 504	8	7	(NA)	5
Sewers, sewer lines, and related facilities	25 256	22 031	(NA)	3 224	10	11	(NA)	14
Water mains and related facilities	32 806	23 526	(NA)	9 279	9	11	(NA)	5
Oilfields	31 257	18 444	(NA)	12 813	6	5	(NA)	8
Other nonbuilding construction	707 983	684 870	(NA)	23 110	1	1	(NA)	20
Construction work, n.s.k.	159 815	128 232	(NA)	31 582	6	6	(NA)	7

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	3 860	26 649	46 216	24 409	10 000	26 743	11 641
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	623	1 926	2 709	1 887	627	1 995	732
1522	Other residential buildings -----	50	356	522	304	117	399	159
1531	Operative builders -----	151	389	818	375	172	400	225
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	88	958	1 711	927	412	928	408
1542	Nonresidential buildings, n.e.c. -----	281	3 404	5 763	3 110	1 253	3 444	1 502
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	107	2 861	5 537	2 342	974	2 981	1 452
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	20	876	1 764	809	410	879	446
1623	Water, sewer, and utility lines -----	74	2 290	4 027	1 858	835	2 279	960
1629	Heavy construction, n.e.c. -----	178	1 544	2 705	1 392	487	1 565	665
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	541	3 007	5 716	2 944	1 412	3 001	1 449
1721	Painting and paper hanging -----	130	719	1 134	633	246	696	249
1731	Electrical work -----	330	1 804	2 921	1 813	727	1 820	734
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	200	796	1 311	687	251	761	316
1742	Plastering, drywall, and insulation work --	84	840	1 582	733	333	792	355
1743	Terrazzo, tile, marble, and mosaic work --	*22	49	75	46	16	47	18
175	Carpentry and floor work:							
1751	Carpentry -----	238	621	1 104	556	226	626	261
1752	Floor laying and other floor work -----	57	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	208	1 156	1 618	1 168	363	1 067	386
1771	Concrete work -----	125	724	798	704	179	701	198
1781	Water well drilling -----	40	297	615	307	153	323	175
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	43	408	738	309	160	394	170
1793	Glass and glazing work -----	12	53	98	58	26	52	24
1794	Excavation work -----	59	479	841	463	164	488	211
1795	Wrecking and demolition work -----	(S)	*68	*130	*62	*33	*62	*27
1796	Installing building equipment, n.e.c. -----	29	368	784	332	164	355	194
1799	Special trade contractors, n.e.c. -----	109	561	1 057	501	221	602	284
6552	Land subdividers and developers, n.e.c. --	45	*11	(S)	(S)	(S)	*9	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
28 602	12 713	26 841	11 860	2	2	2	2	2	2	2	2	2	2	15, 16, 17
														15
1 920 378	699 128	1 901 342	649 118	9 24	14 32	9 25	14 34	9 26	14 33	10 26	15 30	10 24	15 34	152 1521 1522
454	250	329	171	20	27	19	22	19	28	24	34	20	29	1531
														154
1 009 3 634	457 1 514	970 3 429	433 1 492	9 6	11 7	10 4	12 6	9 6	12 8	11 6	12 8	8 7	10 9	1541 1542
														16
3 199	1 647	2 923	1 462	4	6	4	4	4	6	5	7	6	9	1611
														162 1622
861 2 569 1 644	443 1 157 743	957 2 453 1 575	463 1 074 808	9 2 9	8 5 13	9 3 8	9 6 14	8 3 9	8 6 14	7 2 9	7 4 14	10 2 10	9 4 10	1623 1629
														17
3 137	1 483	2 946	1 371	4	5	4	5	4	5	4	5	4	5	1711
898	383	650	255	10	16	12	18	11	17	18	28	12	18	1721
1 875	734	1 709	724	6	7	6	8	6	8	6	8	7	9	1731
														174
897 930 49	391 458 19	840 907 54	351 434 21	11 6 28	13 6 29	14 6 35	16 6 38	12 7 29	15 7 31	14 8 24	17 10 24	15 6 26	16 9 26	1741 1742 1743
693 (S)	335 (S)	610 (S)	280 (S)	16 (S)	21 (S)	15 (S)	22 (S)	15 (S)	20 (S)	18 (S)	26 (S)	17 (S)	21 (S)	175 1751 1752
1 196	438	1 192	429	8	11	10	12	8	11	8	11	9	11	1761
763	221	728	199	15	25	19	28	16	26	16	24	15	25	1771
289	159	270	127	19	11	19	12	19	11	20	12	20	19	1781
														179
466 52 510 *70 400 623	211 23 226 *33 216 303	464 53 455 *78 386 519	197 24 238 *35 209 249	14 23 16 53 5 19	22 21 21 51 12 24	18 23 19 49 2 19	24 21 24 47 6 24	13 17 17 49 4 19	19 17 22 49 12 24	12 26 15 54 8 19	20 24 21 54 15 24	28 25 16 58 6 19	30 23 20 56 15 24	1791 1793 1794 1795 1796 1799
(S)	(S)	(S)	(S)	70	(S)	(S)	(S)	56	(S)	(S)	(S)	(S)	(S)	6552

Table 11. **Selected Industry Ratios for Establishments With Payroll in This State: 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	8.4	16.1	1 734.2	96.0	.204	.346	.242	.015
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	3.8	11.0	1 406.5	88.5	.153	.373	.247	.009
1522	Other residential buildings	8.7	13.5	1 466.3	186.2	.089	.184	.544	.008
1531	Operative builders	5.2	18.6	(S)	447.7	.084	.352	.340	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	13.7	16.8	1 786.0	150.9	.140	.391	.332	.006
1542	Nonresidential buildings, n.e.c.	15.3	17.1	1 693.0	156.3	.138	.271	.495	.011
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	31.5	17.3	1 935.3	104.3	.195	.383	.151	.027
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	48.6	19.8	2 013.7	117.2	.188	.321	.295	.025
1623	Water, sewer, and utility lines	34.9	16.4	1 758.5	62.2	.298	.302	.106	.032
1629	Heavy construction, n.e.c.	9.8	17.5	1 751.9	62.8	.316	.350	.113	.033
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	6.9	17.5	1 900.9	86.3	.253	.411	.100	.008
1721	Painting and paper hanging	6.3	13.5	1 577.2	42.6	.360	.230	.085	.010
1731	Electrical work	6.9	18.0	1 619.2	70.4	.324	.399	.040	.012
174	Masonry, stone work, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	4.4	8.6	1 647.0	28.5	.335	.224	*.201	*.031
1742	Plastering, drywall, and insulation work	12.0	17.1	1 883.3	62.5	.328	.408	.040	.007
1743	Terrazzo, tile, marble, and mosaic work	*2.5	11.2	1 530.6	60.9	.211	(D)	*.046	.016
175	Carpentry and floor work:								
1751	Carpentry	3.0	11.1	1 777.8	43.7	.295	.377	.070	.009
1752	Floor laying and other floor work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	6.9	15.3	1 399.7	72.1	.264	.485	.044	.012
1771	Concrete work	6.7	9.5	1 102.2	39.1	.280	.351	.061	.015
1781	Water well drilling	9.7	14.6	2 070.7	85.5	.223	.517	.032	.010
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	11.2	15.2	1 808.8	51.5	.348	.334	*.118	*.021
1793	Glass and glazing work	6.2	17.2	1 849.1	(D)	(D)	(D)	(D)	(D)
1794	Excavation work	9.7	16.8	1 755.7	76.6	.262	.266	.119	.051
1795	Wrecking and demolition work	(S)	*18.5	*1 911.8	*42.1	.523	*.307	.070	*.107
1796	Installing building equipment, n.e.c.	15.0	26.0	2 130.4	114.1	.270	.316	.075	.014
1799	Special trade contractors, n.e.c.	6.1	16.9	1 884.1	71.4	.280	.361	.073	.014
6552	Land subdividers and developers, n.e.c.	2.0	*17.6	(S)	*1 195.7	.118	*.290	*.496	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MEMPHIS, TN-AR-MS MSA											
	Construction industries and land subdividers and developers	1 819	21 473	415 557	1 927 680	1 425 119	837 251	627 703	502 561	28 575	1	2
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	202	1 100	16 932	99 172	77 108	48 042	29 545	22 064	1 207	11	16
1522	Other residential buildings	27	658	15 025	141 163	65 609	32 348	(D)	75 554	1 074	5	4
1531	Operative builders	145	697	18 909	184 484	118 026	42 889	75 894	66 458	656	15	16
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	8	121	2 839	17 882	11 155	7 464	(D)	6 727	(D)	7	5
1542	Nonresidential buildings, n.e.c.	117	2 359	49 976	379 350	173 998	95 815	82 526	205 353	1 971	5	5
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	35	1 223	24 601	115 189	94 677	59 688	39 335	20 512	4 448	8	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*7	183	2 834	(D)	(D)	(D)	3 902	(D)	*131	34	(D)
1623	Water, sewer, and utility lines	35	739	13 037	63 883	55 459	31 077	(D)	8 424	2 057	7	8
1629	Heavy construction, n.e.c.	39	544	12 255	52 006	44 454	28 784	17 193	7 552	3 024	11	9
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	252	2 760	55 970	214 090	194 476	109 619	86 362	19 613	4 369	4	5
1721	Painting and paper hanging	125	1 132	17 994	47 452	43 452	30 355	(D)	4 000	1 072	9	12
1731	Electrical work	151	2 389	54 287	126 939	124 107	80 462	53 220	2 832	1 965	4	4
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	79	783	11 627	28 577	27 728	19 077	(D)	849	326	11	7
1742	Plastering, drywall, and insulation work	60	1 385	24 310	98 126	84 160	48 398	37 087	13 966	839	5	8
1743	Terrazzo, tile, marble, and mosaic work	34	481	7 555	23 178	22 845	12 846	10 592	333	276	15	11
175	Carpentry and floor work:											
1751	Carpentry	86	410	6 302	20 882	18 185	13 784	7 991	2 897	*258	19	19
1752	Floor laying and other floorwork....	33	133	2 187	6 704	(D)	3 732	3 275	(D)	(D)	19	(D)
1761	Roofing, siding, and sheet metal work	69	965	17 395	51 796	48 379	25 701	23 138	3 417	540	6	5
1771	Concrete work	74	538	7 710	32 803	28 319	16 743	(D)	4 484	850	20	11
1781	Water well drilling	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work	16	193	4 242	12 968	12 954	8 092	6 798	14	110	6	2
1794	Excavation work	16	315	5 811	26 875	(D)	16 596	4 544	(D)	1 157	1	(D)
1795	Wrecking and demolition work	*11	(D)	(D)	(S)	(S)	(S)	*747	(S)	(S)	(D)	(S)
1796	Installing building equipment, n.e.c.	25	823	20 672	83 910	67 907	44 993	(D)	16 003	569	2	2
1799	Special trade contractors, n.e.c.	117	1 012	12 931	47 708	43 482	28 394	17 326	4 226	*866	15	12
6552	Land subdividers and developers, n.e.c.	30	96	2 357	*12 758	*10 968	*11 056	739	*1 789	(D)	37	44



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Tennessee

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Tennessee. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 43,724 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$11.3 billion in total value of business done.

Most of the 43,724 construction establishments were small. Of the total, 34,827 were nonemployers, and over half of the employer establishments had less than 5 employees. The 4,363 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 76 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$9.4 billion on total dollar value of business done. Of this amount, \$9.1 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.5 billion, leaving net value of construction work of \$6.5 billion. In addition, these establishments paid out \$3.3 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$3.7 billion. (See Introduction and appendices for explanation of terms.)

There were 8,897 establishments with total employment averaging 99,216 during the year. Total payroll for 1987 was \$1.9 billion. Total hours worked by construction workers during the year were 141 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 34,827 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$1.9 billion. Most of these establishments, about 76 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

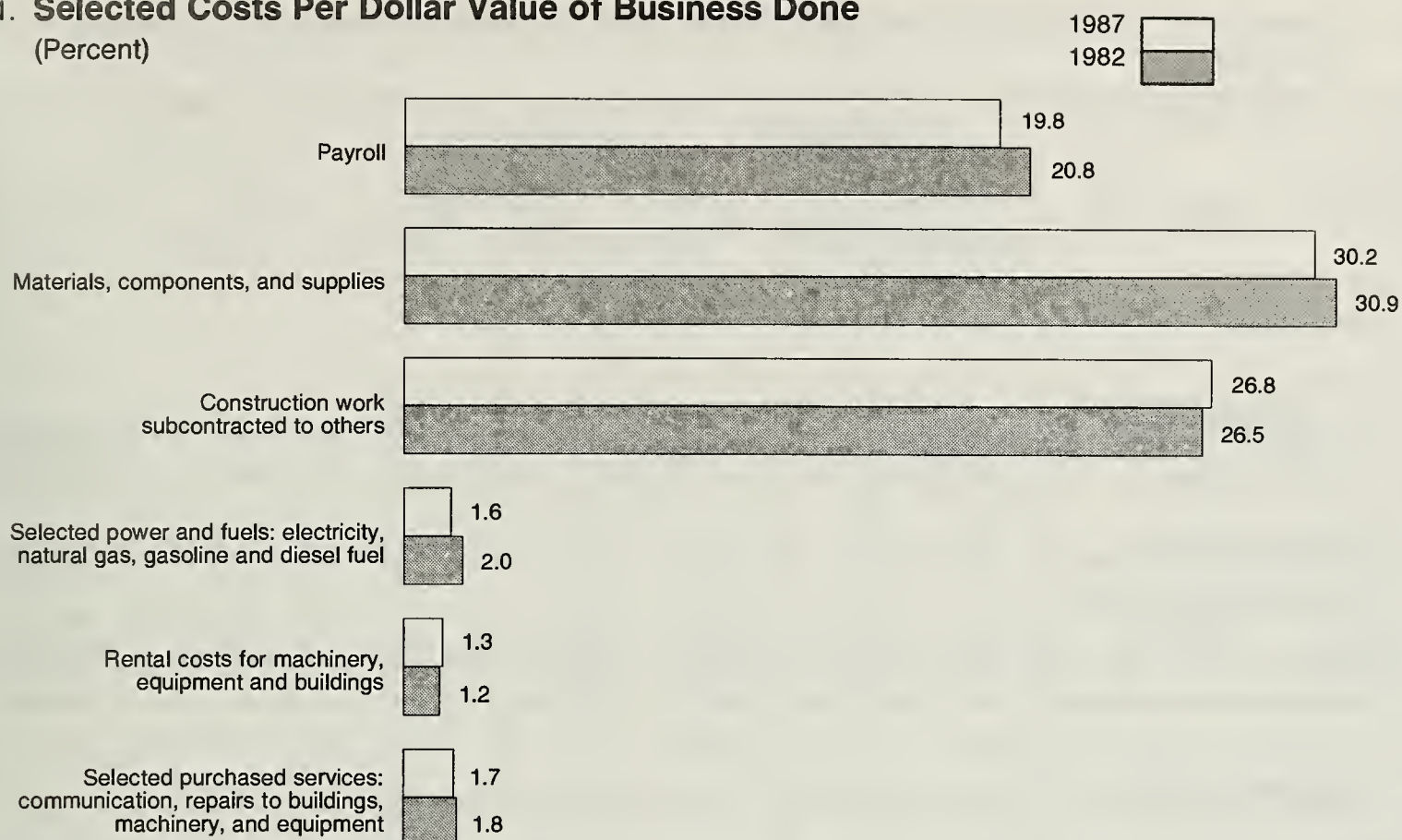


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

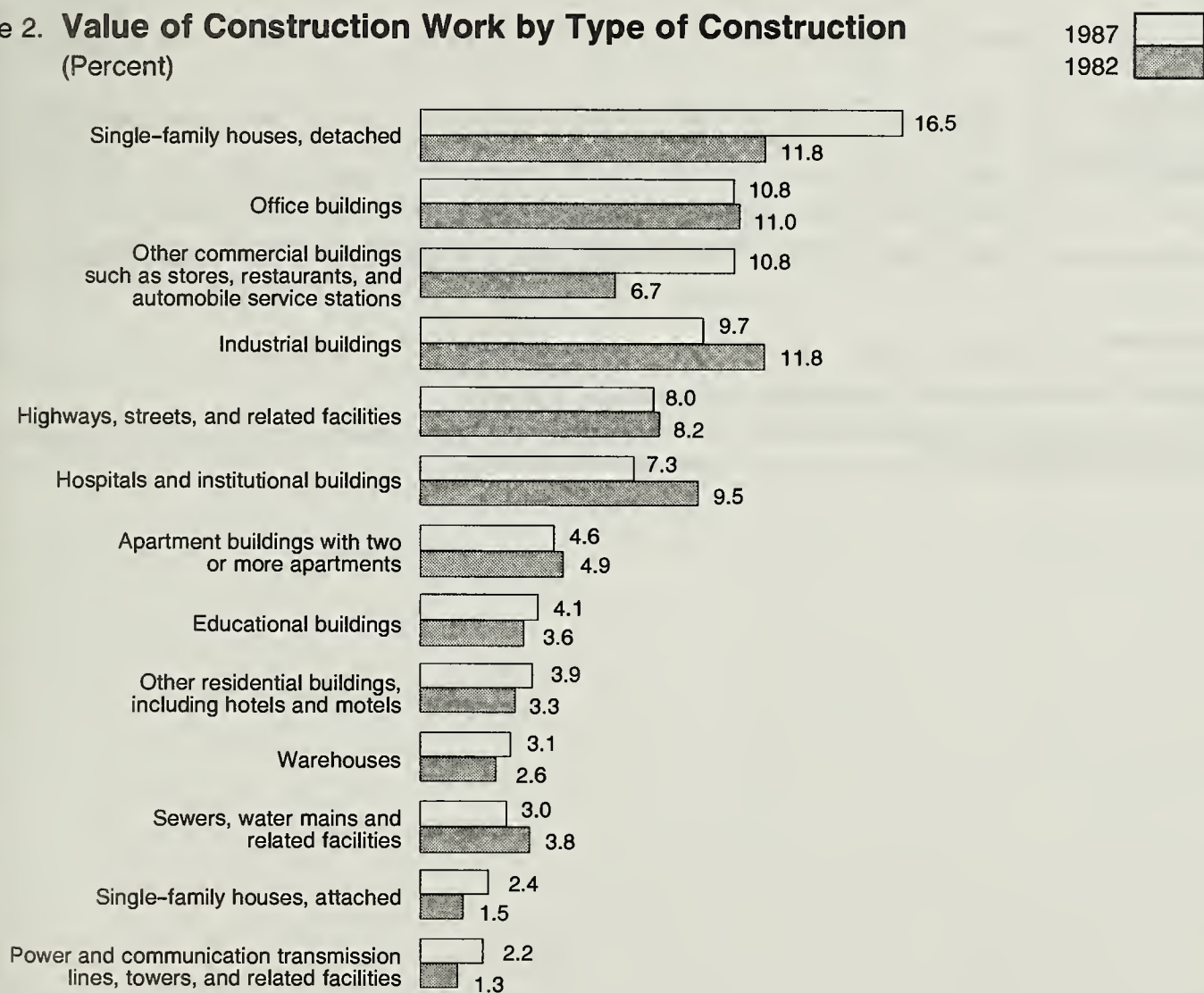


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers -----	43 724	37 854	99 216	11 264 856	34 827	34 953	1 887 050	8 897	2 901	99 216	9 377 806	1	1
15, 16, 17	Construction Industries -----	42 664	36 735	98 730	10 833 617	33 903	33 867	1 561 326	8 761	2 868	98 730	9 272 291	1	1
15	Building construction—General contractors and operative builders ----	9 413	7 310	28 356	5 114 580	6 754	6 482	730 041	2 659	828	28 356	4 384 539	2	2
16	Heavy construction other than building construction— contractors-----	1 208	764	15 576	1 636 426	509	528	40 652	699	236	15 576	1 595 774	2	2
17	Special trade contractors -----	32 043	28 661	54 798	4 082 610	26 640	26 857	790 632	5 403	1 804	54 798	3 291 978	1	1
1711	Plumbing, heating, and air-conditioning --	3 612	2 815	12 417	1 015 759	2 412	2 440	114 771	1 200	375	12 417	900 988	2	2
1731	Electrical work-----	2 452	1 880	11 012	708 466	1 725	1 732	44 726	727	148	11 012	663 740	2	2
6552	Land subdividers and developers, n.e.c.²-----	1 047	(S)	(S)	(S)	924	1 086	325 724	123	(S)	(S)	(S)	(S)	(S)
	1982													
	Construction Industries and land subdividers and developers -----	29 336	25 286	73 506	5 989 144	21 778	22 023	717 091	7 558	3 263	73 506	5 272 053	1	1
15, 16, 17	Construction Industries -----	28 832	24 820	72 946	5 913 150	21 379	21 565	669 768	7 453	3 255	72 946	5 243 382	1	1
15	Building construction—General contractors and operative builders ----	5 385	4 186	19 686	2 414 301	3 304	3 304	233 359	2 081	882	19 686	2 180 942	2	1
16	Heavy construction other than building construction— contractors-----	1 578	1 160	11 701	933 727	1 020	1 028	58 930	558	132	11 701	874 797	2	1
17	Special trade contractors -----	21 869	19 474	41 559	2 565 122	17 055	17 233	377 479	4 814	2 241	41 559	2 187 643	2	1
1711	Plumbing, heating, and air-conditioning --	2 637	2 101	8 376	553 116	1 659	1 689	52 488	978	412	8 376	500 628	3	3
1731	Electrical work-----	1 727	1 343	7 419	481 190	1 180	1 179	31 265	547	164	7 419	449 925	2	1
6552	Land subdividers and developers, n.e.c.²-----	498	(S)	(S)	(S)	399	458	47 323	99	(S)	(S)	(S)	(S)	(S)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	43 724	37 854	99 216	11 264 856	34 827	34 953	1 887 050	8 897	2 901	99 216	9 377 806	1	1
\$10,000,000 or more -----	130	6	19 785	3 497 149	5	3	74 921	125	3	19 785	3 422 228	(W)	1
\$5,000,000 to \$9,999,999 -----	189	30	12 653	1 298 685	9	15	62 782	180	15	12 653	1 235 903	1	2
\$2,500,000 to \$4,999,999 -----	417	60	14 925	1 423 037	22	24	73 832	395	36	14 925	1 349 205	1	3
\$1,000,000 to \$2,499,999 -----	1 204	384	18 340	1 862 046	174	177	249 650	1 030	207	18 340	1 612 396	3	4
\$500,000 to \$999,999 -----	1 414	637	11 159	998 944	350	344	239 761	1 064	293	11 159	759 183	5	5
\$250,000 to \$499,999 -----	2 294	1 425	9 422	808 022	776	767	268 733	1 518	658	9 422	539 289	5	5
\$100,000 to \$249,999 -----	(S)	(S)	(S)	(S)	2 230	2 243	343 363	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	3 138	3 218	220 561	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	4 488	4 540	158 363	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000 -----	(S)	(S)	(S)	(S)	23 635	23 622	195 086	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	8 066	8 071	129 189	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	5 977	5 982	43 630	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 157	4 149	15 241	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	5 435	5 420	7 025	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	29 336	25 286	73 506	5 989 144	21 778	22 023	717 091	7 558	3 263	73 506	5 272 053	1	1
\$10,000,000 or more -----	70	4	12 080	(D)	2	2	(D)	68	2	12 080	(D)	(W)	(D)
\$5,000,000 to \$9,999,999 -----	96	17	7 269	2 501 412	3	3	53 087	93	14	7 269	2 448 325	(W)	(W)
\$2,500,000 to \$4,999,999 -----	206	14	9 318	728 455	6	7	20 361	200	7	9 318	708 094	(W)	(W)
\$1,000,000 to \$2,499,999 -----	550	91	13 329	861 447	31	32	43 315	519	59	13 329	818 132	2	3
\$500,000 to \$999,999 -----	866	278	9 732	603 286	99	94	68 114	767	184	9 732	535 172	5	4
\$250,000 to \$499,999 -----	1 246	568	7 537	432 788	244	236	82 901	1 002	332	7 537	349 887	6	5
\$100,000 to \$249,999 -----	2 714	1 878	7 768	429 766	969	985	146 557	1 745	893	7 768	283 209	6	5
\$50,000 to \$99,999 -----	2 611	2 200	3 322	183 775	1 453	1 505	99 622	1 158	695	3 322	84 153	7	5
\$25,000 to \$49,999 -----	3 255	3 003	1 776	114 169	2 371	2 475	82 346	884	528	1 776	31 823	8	6
Less than \$25,000 -----	17 720	17 230	1 373	134 042	16 600	16 684	120 788	1 120	546	1 373	13 254	6	6
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	4 844	4 906	74 080	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	4 578	4 607	30 826	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 576	4 566	13 280	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	2 602	2 605	2 602	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and land subdividers and developers -----	8 897	99 216	80 665	1 860 226	1 340 801	140 801	9 058 512	6 548 024
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 331	5 967	4 784	74 902	53 920	7 324	513 227	389 298
1522	Other residential buildings -----	134	1 954	1 530	39 716	27 381	2 817	400 517	191 827
1531	Operative builders -----	454	3 017	1 564	66 366	24 238	2 770	606 496	367 634
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	137	3 864	3 192	73 106	55 141	5 768	438 788	263 364
1542	Nonresidential buildings, n.e.c. -----	603	13 554	10 484	280 707	180 650	18 003	2 253 954	1 054 408
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	196	6 674	5 676	138 517	103 946	12 152	748 872	591 274
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	43	1 230	1 081	23 908	19 477	2 480	114 007	92 361
1623	Water, sewer, and utility lines -----	191	4 424	3 715	80 319	61 639	7 037	372 000	323 124
1629	Heavy construction, n.e.c. -----	269	3 248	2 751	66 887	51 646	5 124	321 124	255 887
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	1 200	12 417	9 677	237 815	171 471	17 446	892 336	810 493
1721	Painting and paper hanging -----	391	2 598	2 238	41 310	31 749	3 399	102 111	96 003
1731	Electrical work -----	727	11 012	9 215	259 154	192 320	16 560	648 989	626 948
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	470	4 794	4 437	60 634	52 709	6 312	151 393	144 433
1742	Plastering, drywall, and insulation work -----	272	4 950	4 254	87 741	67 148	7 079	293 342	267 453
1743	Terrazzo, tile, marble, and mosaic work -----	61	743	614	12 751	8 181	979	35 730	35 183
175	Carpentry and floor work:								
1751	Carpentry -----	489	2 410	2 132	31 676	26 999	3 595	118 990	106 973
1752	Floor laying and other floor work -----	136	656	546	10 524	8 456	940	40 195	37 197
1761	Roofing, siding, and sheet metal work -----	432	4 239	3 492	72 912	51 859	5 583	248 581	234 025
1771	Concrete work -----	305	2 285	1 977	33 783	25 981	3 234	138 877	122 827
1781	Water well drilling -----	34	192	136	2 954	2 165	262	13 241	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	101	1 461	1 286	29 027	23 771	2 314	75 157	69 996
1793	Glass and glazing work -----	71	609	437	11 640	7 672	772	45 535	45 141
1794	Excavation work -----	195	1 586	1 352	26 070	20 870	2 280	113 899	101 797
1795	Wrecking and demolition work -----	*18	165	132	1 870	1 462	270	10 159	*9 032
1796	Installing building equipment, n.e.c. -----	87	1 705	1 424	42 129	34 280	2 603	141 128	121 778
1799	Special trade contractors, n.e.c. -----	414	2 976	2 408	43 321	33 799	3 559	150 623	135 794
6552	Land subdividers and developers, n.e.c. -----	123	(S)	(S)	(S)	(S)	(S)	(S)	(S)

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
3 743 920	2 985 424	2 510 488	122 664	167 937	1 177 482	73 506	5 110 219	2 113 330	1	1	3	15, 16, 17
												15
196 234	203 400	123 928	3 375	8 793	46 818	4 762	316 481	140 608	6	8	24	152
95 792	98 589	208 690	4 383	1 480	9 942	1 481	158 760	32 854	6	5	18	1521
												1522
139 481	237 716	238 862	3 006	10 448	79 254	1 954	159 723	55 619	8	8	29	1531
168 375	123 174	175 423	3 723	2 874	35 152	3 620	327 812	106 351	4	4	7	154
584 658	486 777	1 199 546	18 277	13 279	92 828	7 869	1 172 918	220 789	2	2	11	1541
												1542
												16
316 690	305 591	157 597	16 982	39 638	295 660	4 465	344 259	133 763	3	2	5	1611
53 398	39 823	21 646	3 162	5 201	33 922	1 213	103 003	44 384	6	4	12	162
203 684	122 915	48 876	12 056	18 094	98 757	3 444	191 511	95 760	3	5	14	1622
156 523	103 790	65 236	10 218	11 103	91 608	2 579	213 106	104 936	4	4	14	1623
												1629
												17
423 643	395 502	81 842	10 598	15 282	96 124	8 376	486 141	231 245	2	2	8	1711
68 061	29 081	6 108	1 351	2 723	12 710	2 113	61 135	41 345	5	6	21	1721
398 487	243 212	22 041	8 210	10 959	63 768	7 419	441 819	235 822	2	2	10	1731
95 205	50 196	6 960	1 796	2 345	13 364	2 646	76 901	53 426	7	6	17	174
157 789	117 058	25 888	3 003	3 243	15 975	3 710	169 537	101 820	3	4	13	1741
20 423	16 071	547	345	828	4 144	449	16 893	9 164	10	8	17	1742
												1743
72 316	43 470	12 017	1 342	2 244	13 016	1 693	53 418	27 447	9	12	27	175
16 612	21 961	2 998	256	433	4 621	380	17 879	9 013	8	11	9	1751
												1752
126 651	109 009	14 556	2 368	4 613	31 296	3 693	159 355	88 356	4	5	15	1761
70 049	54 741	16 050	2 984	3 658	25 877	2 042	120 377	54 471	8	6	25	1771
6 673	6 164	(D)	74	58	7 734	234	13 722	7 648	21	(D)	37	1781
55 114	18 745	5 161	2 784	1 822	19 191	1 371	64 308	58 042	5	7	6	179
24 827	22 890	*393	692	419	3 219	729	41 229	21 011	12	10	21	1791
80 157	22 241	12 101	5 394	2 431	42 728	3 481	220 824	135 054	7	15	17	1793
*8 632	1 212	(S)	(S)	(S)	*3 495	(D)	3 014	2 290	26	51	(S)	1794
87 412	40 630	19 350	2 092	1 278	13 446	1 215	76 476	50 595	1	1	12	1795
84 831	60 518	14 829	2 366	3 320	14 430	1 873	82 842	42 334	8	7	39	1796
												1799
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	8 897	7 558	9 352	8 587	1	2	3	3
Proprietors and working partners	2 901	3 263	6 839	6 762	4	3	4	4
All employees**	99 216	73 506	85 239	85 682	1	1	1	2
Construction workers:								
March	76 100	57 969	64 673	66 938	1	1	1	2
May	81 725	61 307	76 632	74 004	1	1	1	2
August	85 656	63 339	80 300	79 860	1	1	1	2
November	79 179	59 892	73 783	73 140	1	1	1	2
Average	80 665	61 360	74 002	74 268	1	1	1	2
Other employees:								
March	18 332	12 028	10 569	10 925	1	1	2	3
May	18 474	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	18 652	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	18 743	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	18 550	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	31 305	23 386	(NA)	(NA)	1	1	(NA)	(NA)
April to June	35 746	26 181	(NA)	(NA)	1	1	(NA)	(NA)
July to September	38 364	27 416	(NA)	(NA)	1	1	(NA)	(NA)
October to December	35 385	25 086	(NA)	(NA)	1	1	(NA)	(NA)
Total hours worked	140 801	102 070	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	1 860 226	1 098 325	839 143	614 874	1	1	1	2
Payroll, construction workers	1 340 801	836 990	667 116	505 547	1	1	1	2
Payroll, other employees	519 425	261 335	172 028	109 327	1	1	1	2
First quarter payroll, all employees	415 502	250 697	168 293	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	328 407	187 493	129 575	(NA)	1	1	1	(NA)
Legally required expenditures	247 339	141 148	90 427	(NA)	1	1	1	(NA)
Voluntary expenditures	81 068	46 344	39 149	(NA)	1	1	1	(NA)
Dollar value of business done	9 377 806	5 272 053	3 707 520	2 848 488	1	1	1	2
Value of construction work ¹	9 058 512	5 110 219	3 548 969	2 728 776	1	1	1	2
Value of construction work subcontracted in from others	1 881 170	1 131 831	842 790	465 063	2	2	1	2
Land receipts ²	137 973	26 581	(NA)	(NA)	11	7	(NA)	(NA)
Other business receipts	181 320	135 252	158 551	119 712	4	2	6	5
Net value of construction†	6 548 024	3 713 067	2 717 044	1 967 314	1	1	1	2
Value added††	3 743 920	2 113 330	1 466 511	1 125 402	1	1	1	2
Selected costs	5 495 912	3 132 141	2 173 539	1 681 305	1	1	1	2
Materials, components, and supplies ³	2 836 645	1 629 017	1 270 857	919 843	1	1	1	2
Construction work subcontracted to others	2 510 488	1 397 152	831 925	761 462	1	1	1	2
Selected power, fuels, and lubricants	148 778	105 971	70 757	(NA)	1	2	1	(NA)
Electricity	21 789	14 094	8 261	(NA)	2	2	2	(NA)
Natural gas	5 727	4 970	3 380	(NA)	3	2	4	(NA)
Gasoline and diesel fuel	108 864	79 140	51 194	(NA)	1	2	1	(NA)
On highway use	74 516	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use	34 348	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	12 396	7 765	7 922	(NA)	2	2	3	(NA)
Rental cost for machinery, equipment, and buildings	122 664	63 251	45 192	(NA)	2	1	1	(NA)
For machinery and equipment	89 182	50 474	38 538	28 883	3	2	2	4
For buildings	33 481	12 776	6 654	(NA)	3	2	2	(NA)
Selected purchased services	158 615	95 787	80 754	(NA)	2	1	3	(NA)
Communication services	35 584	21 320	16 416	(NA)	2	2	6	(NA)
Repairs to buildings and other structures	7 687	3 513	2 838	(NA)	5	4	5	(NA)
Repairs to machinery and equipment	115 343	70 953	61 499	(NA)	2	1	2	(NA)
Ownership of construction projects:								
Value of construction work	9 058 512	5 110 219	3 548 969	2 728 776	1	1	1	2
Government owned	2 123 651	1 351 559	865 415	929 078	2	2	1	2
Federal	544 358	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	1 579 292	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Privately owned	6 934 861	3 758 660	2 683 555	1 799 698	1	1	1	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	1 079 566	940 061	2	2
Capital expenditures, other than land -----	167 937	86 599	3	2
New -----	132 102	56 862	4	2
Used -----	35 834	29 737	5	3
Retirements and disposition of depreciable assets -----	70 022	50 803	8	9
End-of-year gross book value of depreciable assets -----	1 177 482	975 857	2	1
Depreciation charges during year -----	140 514	116 908	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	190 712	149 799	6	4
Capital expenditures, other than land -----	24 911	12 194	11	8
New buildings and other structures -----	19 396	6 666	14	8
Used buildings and other structures -----	5 514	5 528	13	16
Retirements and disposition of depreciable assets -----	7 305	11 791	28	38
End-of-year gross book value of depreciable assets -----	208 318	150 202	6	3
Depreciation charges during year -----	17 130	13 580	6	4
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	888 853	790 262	2	2
Capital expenditures, other than land -----	143 026	74 405	3	2
New machinery and equipment, including automobiles and trucks -----	112 706	50 196	4	3
New automobiles and trucks, intended primarily for highway use -----	47 546	18 752	4	3
Used machinery and equipment, including automobiles and trucks -----	30 320	24 209	5	2
Retirements and disposition of depreciable assets -----	62 716	39 011	8	4
End-of-year gross book value of depreciable assets -----	969 163	825 655	2	2
Depreciation charges during year -----	123 384	103 327	2	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	8 897	1
Value of construction work	9 058 512	1
Establishments with inventories:		
Number	3 223	3
Value of construction work	3 949 615	2
Inventories ¹ :		
End of 1987, materials and supplies	100 831	13
End of 1986, materials and supplies	83 958	5
Establishments with no inventories:		
Number	4 174	3
Value of construction work	3 394 766	2
Establishments not reporting:		
Number	1 500	6
Value of construction work	1 714 131	3

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments -----	8 897	4 531	2 129	1 121	774	230	86	19	3	1
All employees** -----	99 216	9 366	13 574	14 866	23 034	15 653	13 146	6 472	3 100	(D)
Payroll, all employees -----	1 860 226	115 690	190 838	252 426	444 477	336 582	300 134	131 682	88 396	(D)
Construction worker hours (thousands) -----	140 801	11 098	16 400	20 258	33 273	23 747	21 169	10 158	4 694	(D)
Dollar value business done -----	9 377 806	846 323	986 342	1 222 337	1 983 994	1 512 819	1 782 766	845 315	197 907	(D)
Value of construction work ¹ -----	9 058 512	783 027	948 134	1 164 005	1 921 145	1 470 439	1 731 602	842 251	197 907	(D)
Net value of construction work† -----	6 548 024	597 764	769 498	937 973	1 466 903	1 031 421	1 130 360	614 103	(D)	(D)
Value added†† -----	3 743 920	309 755	417 829	527 633	875 684	619 398	656 208	250 548	86 863	(D)
Cost of materials, components, supplies, and fuels -----	2 985 424	301 650	366 316	438 224	633 512	965 964	(D)	279 756	(D)	(D)
Cost of construction work subcontracted to others -----	2 510 488	185 262	178 636	226 031	454 241	439 018	601 242	426 055	(D)	(D)
Rental cost for machinery, equipment, and buildings -----	122 664	7 101	11 898	12 921	31 287	24 159	20 187	12 620	2 489	(D)
Capital expenditures, other than land -----	167 937	16 707	19 929	27 184	40 189	22 933	28 162	12 832	(D)	(D)
End-of-year gross book value of depreciable assets -----	1 177 482	118 887	123 415	165 308	269 094	169 776	207 147	123 852	(D)	(D)
1982										
All employees** -----	73 506	9 005	9 532	12 351	16 348	10 384	10 312	3 038	2 535	-
Value of construction work ¹ -----	5 110 219	472 768	478 290	652 741	1 104 478	802 292	896 951	292 006	410 693	-
Value added†† -----	2 113 330	229 887	216 736	303 246	466 045	326 854	333 920	99 589	137 051	-
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	3	4	4	2	1	(W)	(W)	(W)	(D)
Net value of construction work† -----	1	5	5	4	2	(W)	(W)	(W)	(D)	(D)
Capital expenditures, other than land -----	3	16	14	13	7	5	(W)	(W)	(D)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	8 897	(S)	(S)	(S)	(S)	1 518	1 064	1 030	395	180	125
All employees** -----	99 216	(S)	(S)	(S)	(S)	9 422	11 159	18 340	14 925	12 653	19 785
Payroll, all employees -----	1 860 226	(S)	(S)	(S)	(S)	128 709	175 128	349 697	315 970	277 041	488 884
Construction worker hours (thousands) -----	140 801	(S)	(S)	(S)	(S)	12 366	16 070	25 270	21 195	19 789	31 420
Dollar value of business done -----	9 377 806	(S)	(S)	(S)	(S)	539 289	759 183	1 612 396	1 349 205	1 235 903	3 422 228
Value of construction work ¹ -----	9 058 512	(S)	(S)	(S)	(S)	524 213	732 241	1 531 913	1 275 977	1 206 832	3 335 228
Net value of construction work† -----	6 548 024	(S)	(S)	(S)	(S)	451 100	611 043	1 256 749	1 009 446	900 276	1 909 516
Value added†† -----	3 743 920	(S)	(S)	(S)	(S)	246 821	357 908	722 286	593 017	530 360	1 049 547
Cost of materials, components, supplies, and fuels -----	2 985 424	(S)	(S)	(S)	(S)	211 159	273 503	567 396	449 370	390 249	923 804
Cost of construction work subcontracted to others -----	2 510 488	(S)	(S)	(S)	(S)	73 112	121 197	275 164	266 531	306 555	1 425 711
Rental cost for machinery, equipment, and buildings -----	122 664	(S)	(S)	(S)	(S)	7 227	10 715	18 198	19 218	21 143	41 060
Capital expenditures, other than land -----	167 937	(S)	(S)	(S)	(S)	14 710	20 456	31 946	24 567	20 506	44 927
End-of-year gross book value of depreciable assets -----	1 177 482	(S)	(S)	(S)	(S)	94 677	107 644	223 860	194 094	143 074	341 235
1982											
All employees** -----	73 506	1 373	1 776	3 322	7 768	7 537	9 732	13 329	9 318	7 269	12 080
Value of construction work ¹ -----	5 110 219	12 912	31 367	82 367	277 217	338 254	515 416	798 438	687 273	623 591	1 743 382
Value added†† -----	2 113 330	7 118	17 680	44 822	140 706	165 257	242 246	367 887	304 903	263 191	559 517
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	(S)	5	5	3	1	1	(W)
Net value of construction work† -----	1	(S)	(S)	(S)	(S)	5	5	4	2	2	1
Capital expenditures, other than land -----	3	(S)	(S)	(S)	(S)	18	14	11	8	7	2

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	9 058 512	6 285 993	1 601 053	793 822	1	1	2	2
Building construction	6 822 767	5 018 496	1 210 269	551 454	1	1	2	3
Single-family houses	1 715 813	1 323 262	244 685	147 865	4	4	7	6
Single-family houses, detached	1 497 040	1 132 303	229 896	134 840	4	5	7	7
Single-family houses, attached	218 773	190 958	14 789	13 025	8	8	26	16
Apartment buildings with two or more apartments	416 430	364 335	21 183	30 911	3	3	10	17
Other residential buildings, including hotels and motels	353 255	289 862	43 198	20 194	3	2	13	8
Hotels and motels	277 295	247 473	19 773	10 048	3	3	10	7
Other residential buildings, excluding hotels and motels	75 959	42 389	23 425	10 145	8	7	21	13
Office buildings	865 755	631 931	168 111	65 712	2	3	3	4
Other commercial buildings such as stores, restaurants, and automobile service stations	975 967	716 013	183 084	76 869	2	2	6	7
Industrial buildings and warehouses	1 151 881	787 213	214 125	150 543	2	2	3	4
Industrial buildings	874 508	550 030	189 658	134 820	2	2	3	5
Warehouses	277 372	237 182	24 467	15 722	3	3	8	9
Religious buildings	101 608	65 593	27 371	8 643	4	5	8	6
Educational buildings	374 852	270 418	86 686	17 747	2	1	9	2
Hospitals and institutional buildings	658 748	464 026	171 380	23 341	1	1	3	3
Amusement, social, and recreational buildings	62 026	30 143	29 870	2 012	4	7	4	6
Other nonresidential buildings	103 885	75 700	20 576	7 617	12	14	16	11
Land development for buildings	42 547	(NA)	(NA)	(NA)	12	(NA)	(NA)	(NA)
Nonbuilding construction	1 900 648	1 267 497	390 783	242 367	1	2	3	2
Highways, streets, and related facilities	725 742	429 016	198 657	98 068	2	2	5	2
Parking areas including private driveways	59 045	41 675	9 913	7 456	8	9	6	25
Bridges, tunnels, and elevated highways	149 679	119 379	25 196	5 103	3	4	2	7
Power and communication transmission lines, towers, and related facilities	199 401	89 015	53 831	56 554	1	3	(W)	1
Sewers, water mains, and related facilities	268 058	224 682	26 373	17 002	7	8	17	10
Sewers, sewer lines, and related facilities	170 249	142 307	17 217	10 724	10	11	21	11
Water mains and related facilities	97 809	82 374	9 156	6 278	5	5	24	16
Pipeline, other than sewer or water lines	25 771	15 719	5 235	4 816	8	8	19	18
Blast furnaces, petroleum refineries, and chemical complexes	16 261	4 356	2 262	9 643	7	19	7	2
Power plants	31 361	12 249	4 691	14 420	7	3	8	13
Power plants, nuclear	4 465	1 159	1 359	*1 946	26	1	28	40
Power plants, except nuclear	26 896	11 089	3 332	12 474	7	3	(W)	13
Sewage treatment and water treatment plants	130 421	103 993	25 311	1 116	1	1	1	6
Sewage treatment plants	103 256	82 701	(D)	(D)	1	1	(D)	(D)
Water treatment plants	27 164	21 292	(D)	(D)	2	3	(D)	(D)
Earthmoving, nonbuilding	52 706	45 081	3 075	4 549	13	14	22	21
Other nonbuilding construction	242 203	182 332	36 239	23 640	8	9	12	14
Construction work, n.s.k.	335 096	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	5 110 219	4 310 509	(NA)	799 710	1	1	(NA)	2
Building construction	3 565 899	3 049 345	(NA)	516 554	1	1	(NA)	2
Single-family houses	680 291	540 297	(NA)	139 994	3	3	(NA)	5
Single-family houses, detached	604 048	475 197	(NA)	128 851	3	4	(NA)	4
Single-family houses, attached	76 243	65 099	(NA)	11 143	8	8	(NA)	16
Apartment buildings with two or more apartments	251 389	231 102	(NA)	20 286	3	3	(NA)	5
Other residential buildings, including hotels and motels	168 688	154 885	(NA)	13 802	3	2	(NA)	7
Office buildings	561 394	497 913	(NA)	63 481	1	1	(NA)	4
Other commercial buildings such as stores, restaurants, and automobile service stations	340 890	287 753	(NA)	53 137	3	3	(NA)	6
Industrial buildings and warehouses	737 899	589 924	(NA)	147 974	1	2	(NA)	2
Industrial buildings	603 261	474 685	(NA)	128 576	1	2	(NA)	2
Warehouses	134 637	115 239	(NA)	19 397	3	4	(NA)	5
Religious buildings	44 102	33 896	(NA)	10 205	3	4	(NA)	3
Educational buildings	183 787	162 647	(NA)	21 140	2	3	(NA)	7
Hospitals and institutional buildings	487 419	453 567	(NA)	33 852	1	1	(NA)	3
Amusement, social, and recreational buildings	73 610	69 254	(NA)	4 355	4	4	(NA)	19
Other nonresidential buildings	36 424	28 101	(NA)	8 323	8	10	(NA)	7
Nonbuilding construction	1 155 464	953 258	(NA)	202 206	1	1	(NA)	3
Highways, streets, and related facilities	417 034	305 809	(NA)	111 225	2	2	(NA)	5
Bridges, tunnels, and elevated highways	138 135	127 227	(NA)	10 907	2	2	(NA)	1
Marine construction	40 423	30 209	(NA)	10 213	2	1	(NA)	6
Conservation and development construction	21 446	17 989	(NA)	*3 456	9	6	(NA)	50
Power and communication transmission lines, towers, and related facilities	64 950	48 777	(NA)	16 172	3	5	(NA)	2
Sewers, water mains, and related facilities	191 891	173 285	(NA)	18 606	3	3	(NA)	14
Sewers, sewer lines, and related facilities	119 547	109 848	(NA)	9 698	4	3	(NA)	25
Water mains and related facilities	72 344	63 436	(NA)	8 907	6	5	(NA)	9
Pipeline, other than sewer or water lines	14 453	9 015	(NA)	5 438	2	2	(NA)	5
Heavy industrial facilities	62 946	51 919	(NA)	11 026	2	1	(NA)	7
Sewage treatment and water treatment plants	80 418	76 911	(NA)	3 506	2	2	(NA)	5
Other nonbuilding construction	123 760	112 108	(NA)	11 646	9	7	(NA)	36
Construction work, n.s.k.	388 855	307 905	(NA)	80 949	4	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	8 897	80 665	140 801	76 100	31 305	81 725	35 746
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 331	4 784	7 324	4 526	1 662	4 728	1 841
1522	Other residential buildings -----	134	1 530	2 817	1 651	800	1 660	775
1531	Operative builders -----	454	1 564	2 770	1 565	618	1 691	693
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	137	3 192	5 768	3 123	1 426	3 090	1 416
1542	Nonresidential buildings, n.e.c. -----	603	10 484	18 003	9 847	4 124	10 616	4 522
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	196	5 676	12 152	4 300	1 910	5 887	3 215
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	43	1 081	2 480	941	478	1 060	638
1623	Water, sewer, and utility lines -----	191	3 715	7 037	3 444	1 557	3 885	1 848
1629	Heavy construction, n.e.c. -----	269	2 751	5 124	2 554	1 114	2 880	1 354
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	1 200	9 677	17 446	9 197	3 943	9 636	4 318
1721	Painting and paper hanging -----	391	2 238	3 399	1 914	697	2 213	824
1731	Electrical work -----	727	9 215	16 560	9 178	3 869	8 907	4 015
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	470	4 437	6 312	4 136	1 342	4 467	1 636
1742	Plastering, drywall, and insulation work --	272	4 254	7 079	4 059	1 611	4 312	1 794
1743	Terrazzo, tile, marble, and mosaic work --	61	614	979	622	230	690	262
175	Carpentry and floor work:							
1751	Carpentry -----	489	2 132	3 595	2 178	839	2 238	914
1752	Floor laying and other floor work -----	136	546	940	565	237	528	227
1761	Roofing, siding, and sheet metal work -----	432	3 492	5 583	3 280	1 247	3 497	1 408
1771	Concrete work -----	305	1 977	3 234	1 826	687	2 130	890
1781	Water well drilling -----	34	136	262	137	76	137	65
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	101	1 286	2 314	1 341	551	1 204	543
1793	Glass and glazing work -----	71	437	772	427	185	445	193
1794	Excavation work -----	195	1 352	2 280	1 281	498	1 382	576
1795	Wrecking and demolition work -----	*18	132	270	123	*63	133	68
1796	Installing building equipment, n.e.c. -----	87	1 424	2 603	1 522	651	1 476	678
1799	Special trade contractors, n.e.c. -----	414	2 408	3 559	2 232	842	2 700	989
6552	Land subdividers and developers, n.e.c. --	123	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column--										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
85 656	38 364	79 179	35 385	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
5 184 1 491	1 994 658	4 697 1 321	1 825 582	6 6	7 8	7 6	8 7	6 6	8 9	6 7	7 8	6 6	8 8	152 1521 1522
1 611	778	1 388	679	11	14	12	14	12	15	10	14	12	16	1531
														154
3 251 11 260	1 488 4 858	3 302 10 212	1 436 4 497	4 2	5 3	4 2	5 3	4 2	5 3	4 2	5 3	5 2	5 3	1541 1542
														16
6 603	3 831	5 912	3 195	3	4	3	4	3	3	3	4	3	3	1611
														162 1622
1 144 3 871 2 767	678 1 890 1 356	1 181 3 658 2 804	685 1 741 1 299	6 3 4	10 4 5	4 3 6	7 4 7	5 4 5	9 4 5	6 4 4	10 4 5	9 4 5	13 4 6	1623 1629
														17
10 197	4 717	9 680	4 467	2	3	2	3	2	3	2	3	2	3	1711
2 647	1 021	2 180	856	5	6	6	6	6	6	7	6	6	8	1721
9 579	4 356	9 197	4 318	2	2	2	2	2	2	2	3	2	2	1731
														174
														1741
4 787 4 577 598	1 755 1 953 248	4 358 4 070 546	1 576 1 719 238	7 2 11	11 3 11	5 3 13	7 4 13	10 3 15	14 4 12	9 3 7	13 3 8	7 3 8	9 4 11	1742 1743
														175
2 074 567	938 239	2 038 526	902 235	9 7	12 13	10 8	12 14	9 8	12 13	9 8	12 13	10 8	13 14	1751 1752
3 665	1 498	3 527	1 428	4	6	5	8	4	6	4	6	5	7	1761
2 122	919	1 828	736	8	10	8	10	8	11	8	10	8	9	1771
139	54	132	66	19	22	20	26	20	21	20	19	15	19	1781
														179
1 342 479 1 435 153 1 363 2 606	614 205 635 75 631 929	1 257 396 1 309 122 1 338 2 092	605 188 569 61 641 797	5 12 7 21 1 8	8 11 9 35 3 10	6 11 7 24 2 8	6 12 10 42 3 11	6 13 7 23 1 8	9 12 9 37 2 11	6 15 6 20 1 8	8 12 8 30 3 10	6 11 7 18 1 8	9 9 8 32 3 10	1791 1793 1794 1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers -----	11.2	18.8	1 745.5	112.3	.205	.330	.277	.014
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	4.5	12.6	1 530.9	107.3	.146	.396	.241	.007
1522	Other residential buildings -----	14.6	20.3	1 841.2	261.8	.099	.246	.521	.011
1531	Operative builders -----	6.6	22.0	1 771.1	387.8	.109	.392	.394	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	28.2	18.9	1 807.0	137.5	.167	.281	.400	.008
1542	Nonresidential buildings, n.e.c. -----	22.5	20.7	1 717.2	215.0	.125	.216	.532	.008
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	34.1	20.8	2 140.9	131.9	.185	.408	.210	.023
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	28.6	19.4	2 294.2	105.5	.210	.349	.190	.028
1623	Water, sewer, and utility lines -----	23.2	18.2	1 894.2	100.1	.216	.330	.131	.032
1629	Heavy construction, n.e.c. -----	12.1	20.6	1 862.6	116.7	.208	.323	.203	.032
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	10.3	19.2	1 802.8	92.2	.267	.443	.092	.012
1721	Painting and paper hanging -----	6.6	15.9	1 518.8	45.6	.405	.285	.060	.013
1731	Electrical work -----	15.1	23.5	1 797.1	70.4	.399	.375	.034	.013
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	10.2	12.6	1 422.6	34.1	.401	.332	.046	.012
1742	Plastering, drywall, and insulation work -----	18.2	17.7	1 664.1	69.0	.299	.399	.088	.010
1743	Terrazzo, tile, marble, and mosaic work -----	12.2	17.2	1 594.5	58.2	.357	.450	.015	.010
175	Carpentry and floor work:								
1751	Carpentry -----	4.9	13.1	1 686.2	55.8	.266	.365	.101	.011
1752	Floor laying and other floor work -----	4.8	16.0	1 721.6	73.6	.262	.546	.075	.006
1761	Roofing, siding, and sheet metal work -----	9.8	17.2	1 598.8	71.2	.293	.439	.059	.010
1771	Concrete work -----	7.5	14.8	1 635.8	70.2	.243	.394	.116	.021
1781	Water well drilling -----	5.6	15.4	1 926.5	97.4	.223	.466	(D)	.006
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	14.5	19.9	1 799.4	58.4	.386	.249	.069	.037
1793	Glass and glazing work -----	8.6	19.1	1 766.6	104.2	.256	.503	*.009	.015
1794	Excavation work -----	8.1	16.4	1 686.4	84.2	.229	.195	.106	.047
1795	Wrecking and demolition work -----	*9.2	11.3	2 045.5	77.0	.184	.119	(S)	(S)
1796	Installing building equipment, n.e.c. -----	19.6	24.7	1 827.9	99.1	.299	.288	.137	.015
1799	Special trade contractors, n.e.c. -----	7.2	14.6	1 478.0	62.6	.288	.402	.098	.016
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	KNOXVILLE, TN MSA											
	Construction Industries and land subdividers and developers	1 312	12 853	227 071	1 250 946	866 446	445 003	442 051	384 500	25 039	2	3
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	267	1 002	12 986	87 646	65 887	33 642	32 752	21 759	*517	15	22
1522	Other residential buildings	*13	104	1 536	7 444	5 298	*1 960	(D)	2 146	(S)	35	33
1531	Operative builders	63	523	10 236	84 081	54 842	16 437	38 542	29 238	*3 991	26	22
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	25	671	15 902	88 313	44 040	24 208	(D)	44 273	288	15	6
1542	Nonresidential buildings, n.e.c.	86	1 633	31 461	372 920	150 253	62 691	89 526	222 667	996	7	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	19	956	17 973	116 020	99 283	32 229	71 746	16 737	8 140	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	15	367	6 352	28 330	23 993	14 118	(D)	4 337	1 387	8	15
1629	Heavy construction, n.e.c.	20	461	10 877	(D)	45 550	33 932	11 693	(D)	2 890	9	5
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	203	1 809	32 766	122 330	108 090	53 923	55 312	14 239	2 123	6	6
1721	Painting and paper hanging	46	286	4 808	10 008	9 543	7 431	(D)	465	277	10	9
1731	Electrical work	107	1 448	26 861	80 662	77 320	49 372	28 699	3 342	1 509	5	4
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work	50	814	12 793	43 626	39 816	20 554	(D)	*3 811	384	5	4
1743	Terrazzo, tile, marble, and mosaic work	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	59	274	3 398	14 187	12 797	7 142	5 674	*1 390	*110	28	26
1752	Floor laying and other floorwork	22	142	2 014	7 566	7 320	4 313	3 420	246	120	18	17
1761	Roofing, siding, and sheet metal work	42	388	6 256	17 996	17 169	9 770	(D)	*827	255	18	11
1771	Concrete work	37	238	3 044	14 593	13 183	7 826	6 233	*1 410	512	27	28
1781	Water well drilling	4	27	381	(D)	(D)	1 013	589	(D)	(D)	(W)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	19	246	4 738	11 519	11 210	8 988	3 320	309	391	15	15
1793	Glass and glazing work	*14	*98	1 337	*5 723	*5 519	*2 915	*2 795	(S)	*33	58	52
1794	Excavation work	55	356	5 433	*30 249	(D)	*22 415	5 595	(D)	*174	18	(D)
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	7	160	4 223	13 871	(D)	10 813	3 172	(D)	93	(W)	(D)
1799	Special trade contractors, n.e.c.	66	547	7 555	26 913	24 049	13 756	14 528	*2 865	*376	21	24
6552	Land subdividers and developers, n.e.c.	*13	26	771	1 932	818	670	148	1 114	—	19	21
	MEMPHIS, TN-AR-MS MSA											
	Construction Industries and land subdividers and developers	1 819	21 473	415 557	1 927 680	1 425 119	837 251	627 703	502 561	28 575	1	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	202	1 100	16 932	99 172	77 108	48 042	29 545	22 064	1 207	11	16
1522	Other residential buildings	27	658	15 025	141 163	65 609	32 348	(D)	75 554	1 074	5	4
1531	Operative builders	145	697	18 909	184 484	118 026	42 889	75 894	66 458	656	15	16
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	8	121	2 839	17 882	11 155	7 464	(D)	6 727	(D)	7	5
1542	Nonresidential buildings, n.e.c.	117	2 359	49 976	379 350	173 998	95 815	82 526	205 353	1 971	5	5

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MEMPHIS, TN-AR-MS MSA—Con.											
	Construction Industries and land subdividers and developers—Con.											
15,16, 17 16	Construction Industries—Con.											
	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	35	1 223	24 601	115 189	94 677	59 688	39 335	20 512	4 448	8	2
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	*7	183	2 834	(D)	(D)	(D)	3 902	(D)	*131	34	(D)
1623	Water, sewer, and utility lines -----	35	739	13 037	63 883	55 459	31 077	(D)	8 424	2 057	7	8
1629	Heavy construction, n.e.c. -----	39	544	12 255	52 006	44 454	28 784	17 193	7 552	3 024	11	9
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning -----	252	2 760	55 970	214 090	194 476	109 619	86 362	19 613	4 369	4	5
1721	Painting and paper hanging-----	125	1 132	17 994	47 452	43 452	30 355	(D)	4 000	1 072	9	12
1731	Electrical work -----	151	2 389	54 287	126 939	124 107	80 462	53 220	2 832	1 965	4	4
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	79	783	11 627	28 577	27 728	19 077	(D)	849	326	11	7
1742	Plastering, drywall, and insulation work -----	60	1 385	24 310	98 126	84 160	48 398	37 087	13 966	839	5	8
1743	Terrazzo, tile, marble, and mosaic work -----	34	481	7 555	23 178	22 845	12 846	10 592	333	276	15	11
175	Carpentry and floor work:											
1751	Carpentry -----	86	410	6 302	20 882	18 185	13 784	7 991	2 697	*258	19	19
1752	Floor laying and other floorwork-----	33	133	2 187	6 704	(D)	3 732	3 275	(D)	(D)	19	(D)
1761	Roofing, siding, and sheet metal work -----	69	965	17 395	51 796	48 379	25 701	23 138	3 417	540	6	5
1771	Concrete work -----	74	538	7 710	32 803	28 319	16 743	(D)	4 484	850	20	11
1781	Water well drilling -----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work -----	16	193	4 242	12 968	12 954	8 092	6 798	14	110	6	2
1794	Excavation work -----	16	315	5 811	26 875	(D)	16 596	4 544	(D)	1 157	1	(D)
1795	Wrecking and demolition work -----	*11	(D)	(D)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)
1796	Installing building equipment, n.e.c. -	25	823	20 672	83 910	67 907	44 993	(D)	16 003	569	2	2
1799	Special trade contractors, n.e.c.-----	117	1 012	12 931	47 708	43 482	28 394	17 326	4 226	*866	15	12
6552	Land subdividers and developers, n.e.c. -----	30	96	2 357	*12 756	*10 968	*11 056	739	*1 789	(D)	37	44
	NASHVILLE, TN MSA											
	Construction Industries and land subdividers and developers -----	2 256	31 220	626 679	3 036 138	2 171 616	1 230 883	1 002 549	864 522	55 400	1	1
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	283	1 381	17 716	117 047	86 908	43 813	48 072	30 139	1 491	14	14
1522	Other residential buildings -----	31	649	14 757	156 638	65 636	28 783	37 440	91 002	238	3	10
1531	Operative builders -----	114	900	23 851	220 034	138 367	61 497	77 968	81 667	*3 321	12	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	40	590	11 995	83 472	27 235	(D)	44 340	56 237	598	12	27
1542	Nonresidential buildings, n.e.c. -----	163	5 020	119 956	891 067	448 925	260 895	193 811	442 143	3 957	3	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	53	2 235	46 192	215 946	171 760	93 674	95 272	44 185	13 522	4	4
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	12	359	7 765	43 548	33 857	18 063	(D)	9 691	2 030	10	5
1623	Water, sewer, and utility lines -----	66	1 844	36 073	166 426	146 347	101 487	46 453	20 079	9 232	5	10
1629	Heavy construction, n.e.c. -----	37	695	13 193	52 558	47 140	32 598	15 311	5 419	1 785	7	3

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	NASHVILLE, TN MSA—Con.											
	Construction Industries and land subdividers and developers—Con.											
15,16, 17 17	Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	327	3 769	77 302	285 647	265 817	136 301	131 162	19 830	4 526	4	2
1721	Painting and paper hanging-----	124	759	13 792	33 956	32 058	21 782	10 286	1 898	*798	7	4
1731	Electrical work -----	185	4 087	91 150	260 334	252 786	152 333	102 592	7 548	4 400	3	2
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	135	2 067	26 313	60 514	59 369	40 018	(D)	1 145	501	4	3
1742	Plastering, drywall, and insulation work -----	74	1 643	29 828	90 215	85 325	54 469	(D)	*4 890	797	3	5
1743	Terrazzo, tile, marble, and mosaic work -----	20	190	3 695	9 635	9 444	5 864	(D)	191	400	7	8
175	Carpentry and floor work:											
1751	Carpentry-----	141	754	10 226	40 698	38 016	25 406	16 673	2 682	1 652	14	21
1752	Floor laying and other floorwork-----	25	179	3 554	11 726	10 403	3 860	6 561	1 323	(D)	17	25
1761	Roofing, siding, and sheet metal work -----	93	1 143	22 369	67 313	64 076	34 405	(D)	3 237	845	10	11
1771	Concrete work -----	49	692	12 913	54 179	45 482	22 095	(D)	8 698	908	6	5
1781	Water well drilling -----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	20	350	8 261	19 685	18 689	16 417	(D)	996	845	4	3
1793	Glass and glazing work -----	15	165	3 387	14 831	14 725	6 831	8 076	106	*104	19	16
1794	Excavation work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work -----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.-----	19	175	4 087	11 822	11 552	8 609	3 005	270	*38	4	6
1799	Special trade contractors, n.e.c.-----	101	677	11 613	41 896	36 883	22 659	(D)	5 013	(S)	11	10
6552	Land subdividers and developers, n.e.c.-----	67	251	5 556	45 813	22 643	*14 753	8 438	*23 170	*595	11	31



APPENDIX A.

Explanation of Terms

Construction—Is composed of three broad categories:

1. **New construction**—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
2. **Additions, alterations or reconstruction**—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
3. **Maintenance and repair**—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

All employees—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

Construction workers—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment

operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

Payroll—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Employer costs for fringe benefits (supplemental labor costs)—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

Legally required contributions—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

Voluntary payments—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

Value of construction work done—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

Other business receipts—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

Net value of construction work—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Selected costs—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems; etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

- all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

Rental costs for machinery, equipment, and buildings—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It

excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

Assets and depreciation—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

Capital expenditures—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

Inventories—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale.

Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Ownership of construction projects—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

Value of construction work subcontracted in from others—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (include townhouses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- **Hotels and motels**—Includes hotels, motels, and tourist cabins intended for transient accommodations.

- **Other residential buildings**—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- **Other commercial buildings, such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

Nonbuilding construction:

- **Highways, streets and related work, such as installation of guardrails, highway signs, etc.**—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Recreational facilities**—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Bridges and elevated highways**—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- **Tunnels**—Includes highway, pedestrian, and railroad tunnels.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- **Power and communication transmission lines, towers, and related facilities**—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants, and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers, and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.

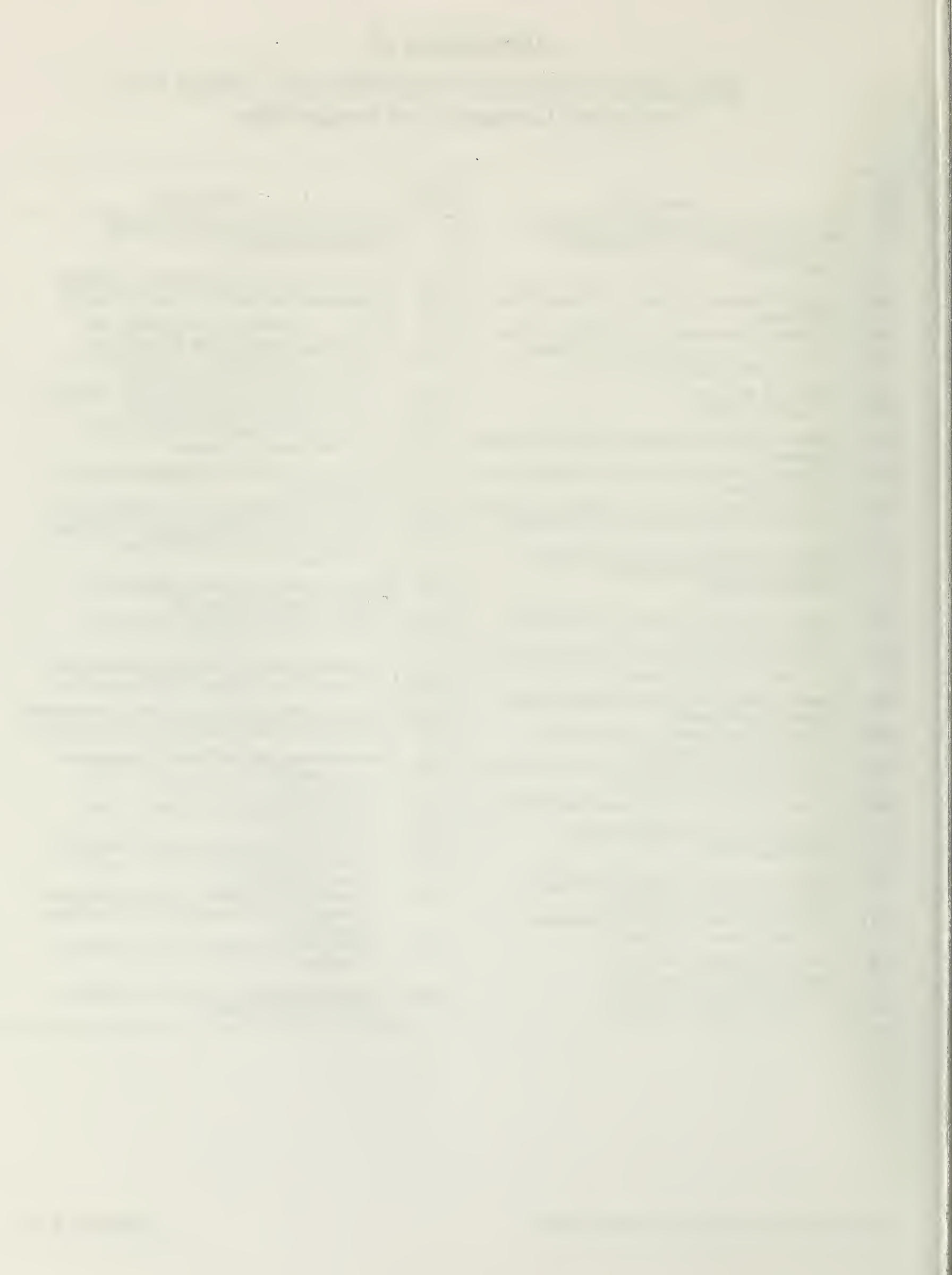
- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.



APPENDIX B.

Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173	Electrical Work Special Trade Contractors
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	174	Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentry and Floor Work Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
16	HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
161	Highway and Street Construction, Except Elevated Highways	176	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street Construction	177	Concrete Work Special Trade Contractors
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Powerline Construction	178	Water Well Drilling Special Trade Contractors
1629	Heavy Construction, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	179	Miscellaneous Special Trade Contractors
171	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
172	Painting and Paper Hanging Special Trade Contractors	1794	Excavation Work Special Trade Contractors
1721	Painting and Paper Hanging Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment, Special Trade Contractors, Not Elsewhere Classified
		1799	Special Trade Contractors, Not Elsewhere Classified
		6552	LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES



APPENDIX C.

Regions, Census Divisions, and States

NORTHEAST

New England States

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Middle Atlantic States

New Jersey
New York
Pennsylvania

MIDWEST

East North Central States

Illinois
Indiana
Michigan
Ohio
Wisconsin

West North Central States

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH

South Atlantic States

Delaware
District of Columbia
Florida
Georgia
Maryland

South Atlantic States—Con.

North Carolina
South Carolina
Virginia
West Virginia

East South Central States

Alabama
Kentucky
Mississippi
Tennessee

West South Central States

Arkansas
Louisiana
Oklahoma
Texas

WEST

Mountain States

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

Pacific States

Alaska
California
Hawaii
Oregon
Washington

APPENDIX D.

Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

Abilene, TX MSA

Taylor County, TX

Akron, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA

Albany, GA MSA

Dougherty County, GA

Lee County, GA

Albany-Schenectady-Troy, NY MSA

Albany County, NY

Greene County, NY

Montgomery County, NY

Rensselaer County, NY

Saratoga County, NY

Schenectady County, NY

Albuquerque, NM MSA

Bernalillo County, NM

Alexandria, LA MSA

Rapides Parish, LA

Allentown-Bethlehem, PA-NJ MSA

Warren County, NJ

Carbon County, PA

Lehigh County, PA

Northampton County, PA

Altoona, PA MSA

Blair County, PA

Amarillo, TX MSA

Potter County, TX

Randall County, TX

Anaheim-Santa Ana, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Anchorage, AK MSA

Anchorage Borough, AK

Anderson, IN MSA

Madison County, IN

Anderson, SC MSA

Anderson County, SC

Ann Arbor, MI PMSA—see Detroit-Ann Arbor, MI CMSA

Anniston, AL MSA

Calhoun County, AL

Appleton-Oshkosh-Neenah, WI MSA

Calumet County, WI

Outagamie County, WI

Winnebago County, WI

Asheville, NC MSA

Buncombe County, NC

Athens, GA MSA

Clarke County, GA

Jackson County, GA

Madison County, GA

Oconee County, GA

Atlanta, GA MSA

Barrow County, GA

Butts County, GA

Cherokee County, GA

Clayton County, GA

Cobb County, GA

Coweta County, GA

De Kalb County, GA

Douglas County, GA

Atlanta, GA MSA—Con.

Fayette County, GA

Forsyth County, GA

Fulton County, GA

Gwinnett County, GA

Henry County, GA

Newton County, GA

Paulding County, GA

Rockdale County, GA

Spalding County, GA

Walton County, GA

Atlantic City, NJ MSA

Atlantic County, NJ

Cape May County, NJ

Augusta, GA-SC MSA

Columbia County, GA

McDuffie County, GA

Richmond County, GA

Aiken County, SC

Aurora-Elgin, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Austin, TX MSA

Hays County, TX

Travis County, TX

Williamson County, TX

Bakersfield, CA MSA

Kern County, CA

Baltimore, MD MSA

Anne Arundel County, MD

Baltimore County, MD

Carroll County, MD

Harford County, MD

Howard County, MD

Queen Anne's County, MD

Baltimore city, MD

Bangor, ME MSA

Penobscot County, ME (part)

Bangor city, ME

Brewer city, ME

Eddington town, ME

Glenburn town, ME

Hampden town, ME

Hermon town, ME

Holden town, ME

Kenduskeag town, ME

Old Town city, ME

Orono town, ME

Orrington town, ME

Penobscot Indian Island Indian Reservation, ME

Veazie town, ME

Waldo County, ME (part)

Winterport town, ME

Baton Rouge, LA MSA

Ascension Parish, LA

East Baton Rouge Parish, LA

Livingston Parish, LA

West Baton Rouge Parish, LA

Battle Creek, MI MSA

Calhoun County, MI

Beaumont-Port Arthur, TX MSA

Hardin County, TX

Jefferson County, TX

Orange County, TX

Beaver County, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA

Bellingham, WA MSA

Whatcom County, WA

Benton Harbor, MI MSA

Berrien County, MI

Bergen-Passaic, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Billings, MT MSA

Yellowstone County, MT

Biloxi-Gulfport, MS MSA

Hancock County, MS

Harrison County, MS

Binghamton, NY MSA

Broome County, NY

Tioga County, NY

Birmingham, AL MSA

Blount County, AL

Jefferson County, AL

St. Clair County, AL

Shelby County, AL

Walker County, AL

Bismarck, ND MSA

Burleigh County, ND

Morton County, ND

Bloomington, IN MSA

Monroe County, IN

Bloomington-Normal, IL MSA

McLean County, IL

Boise City, ID MSA

Ada County, ID

Boston, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Boston-Lawrence-Salem, MA-NH CMSA

Boston, MA PMSA

Bristol County, MA (part)

Mansfield town, MA

Norton town, MA

Raynham town, MA

Essex County, MA (part)

Lynn city, MA

Lynnfield town, MA

Nahant town, MA

Saugus town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Middlesex County, MA (part)—Con.

Everett city, MA
 Framingham town, MA
 Groton town, MA
 Holliston town, MA
 Hopkinton town, MA
 Hudson town, MA
 Lexington town, MA
 Lincoln town, MA
 Littleton town, MA
 Malden city, MA
 Marlborough city, MA
 Maynard town, MA
 Medford city, MA
 Melrose city, MA
 Natick town, MA
 Newton city, MA
 North Reading town, MA
 Reading town, MA
 Sherborn town, MA
 Shirley town, MA
 Somerville city, MA
 Stoneham town, MA
 Stow town, MA
 Sudbury town, MA
 Townsend town, MA
 Wakefield town, MA
 Waltham city, MA
 Watertown town, MA
 Wayland town, MA
 Weston town, MA
 Wilmington town, MA
 Winchester town, MA
 Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA
 Braintree town, MA
 Brookline town, MA
 Canton town, MA
 Cohasset town, MA
 Dedham town, MA
 Dover town, MA
 Foxborough town, MA
 Franklin town, MA
 Holbrook town, MA
 Medfield town, MA
 Medway town, MA
 Millis town, MA
 Milton town, MA
 Needham town, MA
 Norfolk town, MA
 Norwood town, MA
 Quincy city, MA
 Randolph town, MA
 Sharon town, MA
 Stoughton town, MA
 Walpole town, MA
 Wellesley town, MA
 Westwood town, MA
 Weymouth town, MA
 Wrentham town, MA

Plymouth County, MA (part)

Carver town, MA
 Duxbury town, MA
 Hanover town, MA
 Hanson town, MA
 Hingham town, MA
 Hull town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Plymouth County, MA (part)—Con.

Kingston town, MA
 Lakeville town, MA
 Marshfield town, MA
 Middleborough town, MA
 Norwell town, MA
 Pembroke town, MA
 Plymouth town, MA
 Plympton town, MA
 Rockland town, MA
 Scituate town, MA

Suffolk County, MA (part)

Boston city, MA
 Chelsea city, MA
 Revere city, MA
 Winthrop town, MA

Worcester County, MA (part)

Berlin town, MA
 Bolton town, MA
 Harvard town, MA
 Hopedale town, MA
 Lancaster town, MA
 Mendon town, MA
 Milford town, MA
 Southborough town, MA
 Upton town, MA

Brockton, MA PMSA

Bristol County, MA (part)

Easton town, MA

Norfolk County, MA (part)

Avon town, MA

Plymouth County, MA (part)

Abington town, MA
 Bridgewater town, MA
 Brockton city, MA
 East Bridgewater town, MA
 Halifax town, MA
 West Bridgewater town, MA
 Whitman town, MA

Lawrence-Haverhill, MA-NH PMSA

Essex County, MA (part)

Amesbury town, MA
 Andover town, MA
 Boxford town, MA
 Georgetown town, MA
 Groveland town, MA
 Haverhill city, MA
 Lawrence city, MA
 Merrimac town, MA
 Methuen town, MA
 Newbury town, MA
 Newburyport city, MA
 North Andover town, MA
 Salisbury town, MA
 West Newbury town, MA

Rockingham County, NH (part)

Atkinson town, NH
 Brentwood town, NH
 Danville town, NH
 Derry town, NH
 East Kingston town, NH
 Hampstead town, NH
 Kingston town, NH
 Newton town, NH
 Plaistow town, NH
 Salem town, NH
 Sandown town, NH
 Seabrook town, NH
 Windham town, NH

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Lowell, MA-NH PMSA

Middlesex County, MA (part)

Billerica town, MA
 Chelmsford town, MA
 Dracut town, MA
 Dunstable town, MA
 Lowell city, MA
 Pepperell town, MA
 Tewksbury town, MA
 Tyngsborough town, MA
 Westford town, MA

Hillsborough County, NH (part)

Pelham town, NH

Nashua, NH PMSA

Hillsborough County, NH (part)

Amherst town, NH
 Brookline town, NH
 Hollis town, NH
 Hudson town, NH
 Litchfield town, NH
 Merrimack town, NH
 Milford town, NH
 Mont Vernon town, NH
 Nashua city, NH
 Wilton town, NH

Rockingham County, NH (part)

Londonderry town, NH

Salem-Gloucester, MA PMSA

Essex County, MA (part)

Beverly city, MA
 Danvers town, MA
 Essex town, MA
 Gloucester city, MA
 Hamilton town, MA
 Ipswich town, MA
 Manchester town, MA
 Marblehead town, MA
 Middleton town, MA
 Peabody city, MA
 Rockport town, MA
 Rowley town, MA
 Salem city, MA
 Swampscott town, MA
 Topsfield town, MA
 Wenham town, MA

Boulder-Longmont, CO PMSA—see Denver-Boulder, CO CMSA**Bradenton, FL MSA**

Manatee County, FL

Brazoria, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA**Bremerton, WA MSA**

Kitsap County, WA

Bridgeport-Milford, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**Bristol, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA****Brockton, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA****Brownsville-Harlingen, TX MSA**

Cameron County, TX

Bryan-College Station, TX MSA

Brazos County, TX

Buffalo, NY PMSA—see Buffalo-Niagara Falls, NY CMSA

Buffalo-Niagara Falls, NY CMSA

Buffalo, NY PMSA
Erie County, NY
Niagara Falls, NY PMSA
Niagara County, NY

Burlington, NC MSA

Alamance County, NC

Burlington, VT MSA

Chittenden County, VT (part)
Burlington city, VT
Charlotte town, VT
Colchester town, VT
Essex Junction village, VT
Essex town balance, VT
Hinesburg town, VT
Jericho town, VT
Jericho village, VT
Milton town, VT
Milton village, VT
Richmond town, VT
Richmond village, VT
St. George town, VT
Shelburne town, VT
South Burlington city, VT
Williston town, VT
Winooski city, VT
Franklin County, VT (part)
Georgia town, VT
Grand Isle town, VT
South Hero town, VT

Canton, OH MSA

Carroll County, OH
Stark County, OH

Casper, WY MSA

Natrona County, WY

Cedar Rapids, IA MSA

Linn County, IA

Champaign-Urbana-Rantoul, IL MSA

Champaign County, IL

Charleston, SC MSA

Berkeley County, SC
Charleston County, SC
Dorchester County, SC

Charleston, WV MSA

Kanawha County, WV
Putnam County, WV

Charlotte-Gastonia-Rock Hill, NC-SC MSA

Cabarrus County, NC
Gaston County, NC
Lincoln County, NC
Mecklenburg County, NC
Rowan County, NC
Union County, NC
York County, SC

Charlottesville, VA MSA

Albemarle County, VA
Fluvanna County, VA
Greene County, VA
Charlottesville city, VA

Chattanooga, TN-GA MSA

Catoosa County, GA
Dade County, GA
Walker County, GA
Hamilton County, TN
Marion County, TN
Sequatchie County, TN

Cheyenne, WY MSA

Laramie County, WY

Chicago, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Chicago-Gary-Lake County, IL-IN-WI CMSA

Aurora-Elgin, IL PMSA
Kane County, IL
Kendall County, IL
Chicago, IL PMSA
Cook County, IL
Du Page County, IL
McHenry County, IL
Gary-Hammond, IN PMSA
Lake County, IN
Porter County, IN
Joliet, IL PMSA
Grundy County, IL
Will County, IL
Kenosha, WI PMSA
Kenosha County, WI
Lake County, IL PMSA
Lake County, IL

Chico, CA MSA

Butte County, CA

Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA

Cincinnati-Hamilton, OH-KY-IN CMSA

Cincinnati, OH-KY-IN PMSA
Dearborn County, IN
Boone County, KY
Campbell County, KY
Kenton County, KY
Clermont County, OH
Hamilton County, OH
Warren County, OH
Hamilton-Middletown, OH PMSA
Butler County, OH

Clarksville-Hopkinsville, TN-KY MSA

Christian County, KY
Montgomery County, TN

Cleveland, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA

Cleveland-Akron-Lorain, OH CMSA

Akron, OH PMSA
Portage County, OH
Summit County, OH
Cleveland, OH PMSA
Cuyahoga County, OH
Geauga County, OH
Lake County, OH
Medina County, OH
Lorain-Elyria, OH PMSA
Lorain County, OH

Colorado Springs, CO MSA

El Paso County, CO

Columbia, MO MSA

Boone County, MO

Columbia, SC MSA

Lexington County, SC
Richland County, SC

Columbus, GA-AL MSA

Russell County, AL
Chattahoochee County, GA
Muscogee County, GA

Columbus, OH MSA

Delaware County, OH
Fairfield County, OH
Franklin County, OH
Licking County, OH
Madison County, OH
Pickaway County, OH
Union County, OH

Corpus Christi, TX MSA

Nueces County, TX
San Patricio County, TX

Cumberland, MD-WV MSA

Allegany County, MD
Mineral County, WV

Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA

Dallas-Fort Worth, TX CMSA

Dallas, TX PMSA
Collin County, TX
Dallas County, TX
Denton County, TX
Ellis County, TX
Kaufman County, TX
Rockwall County, TX
Fort Worth-Arlington, TX PMSA
Johnson County, TX
Parker County, TX
Tarrant County, TX

Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Danville, VA MSA

Pittsylvania County, VA
Danville city, VA

Davenport-Rock Island-Moline, IA-IL MSA

Henry County, IL
Rock Island County, IL
Scott County, IA

Dayton-Springfield, OH MSA

Clark County, OH
Greene County, OH
Miami County, OH
Montgomery County, OH

Daytona Beach, FL MSA

Volusia County, FL

Decatur, IL MSA

Macon County, IL

Denver, CO PMSA—see Denver-Boulder, CO CMSA

Denver-Boulder, CO CMSA

Boulder-Longmont, CO PMSA
Boulder County, CO
Denver, CO PMSA
Adams County, CO
Arapahoe County, CO
Denver County, CO
Douglas County, CO
Jefferson County, CO

Des Moines, IA MSA

Dallas County, IA
Polk County, IA
Warren County, IA

Detroit, MI PMSA—see Detroit-Ann Arbor, MI CMSA

Detroit-Ann Arbor, MI CMSA

Ann Arbor, MI PMSA
Washtenaw County, MI
Detroit, MI PMSA
Lapeer County, MI
Livingston County, MI
Macomb County, MI
Monroe County, MI
Oakland County, MI
St. Clair County, MI
Wayne County, MI

Dothan, AL MSA

Dale County, AL
Houston County, AL

Dubuque, IA MSA

Dubuque County, IA

Duluth, MN-WI MSA
 St. Louis County, MN
 Douglas County, WI

Eau Claire, WI MSA
 Chippewa County, WI
 Eau Claire County, WI

El Paso, TX MSA
 El Paso County, TX

Elkhart-Goshen, IN MSA
 Elkhart County, IN

Elmira, NY MSA
 Chemung County, NY

Enid, OK MSA
 Garfield County, OK

Erie, PA MSA
 Erie County, PA

Eugene-Springfield, OR MSA
 Lane County, OR

Evansville, IN-KY MSA
 Posey County, IN
 Vanderburgh County, IN
 Warrick County, IN
 Henderson County, KY

Fall River, MA-RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA

Fargo-Moorhead, ND-MN MSA
 Clay County, MN
 Cass County, ND

Fayetteville, NC MSA
 Cumberland County, NC

Fayetteville-Springdale, AR MSA
 Washington County, AR

Fitchburg-Leominster, MA MSA
 Middlesex County, MA (part)
 Ashby town, MA
 Worcester County, MA (part)
 Ashburnham town, MA
 Fitchburg city, MA
 Leominster city, MA
 Lunenburg town, MA
 Westminster town, MA

Flint, MI MSA
 Genesee County, MI

Florence, AL MSA
 Colbert County, AL
 Lauderdale County, AL

Florence, SC MSA
 Florence County, SC

Fort Collins-Loveland, CO MSA
 Larimer County, CO

Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA—see Miami-Fort Lauderdale, FL CMSA

Fort Myers-Cape Coral, FI MSA
 Lee County, FL

Fort Pierce, FL MSA
 Martin County, FL
 St. Lucie County, FL

Fort Smith, AR-OK MSA
 Crawford County, AR
 Sebastian County, AR
 Sequoyah County, OK

Fort Walton Beach, FL MSA
 Okaloosa County, FL

Fort Wayne, IN MSA
 Allen County, IN
 De Kalb County, IN
 Whitley County, IN

Fort Worth-Arlington, TX PMSA—see Dallas-Fort Worth, TX CMSA

Fresno, CA MSA
 Fresno County, CA

Gadsden, AL MSA
 Etowah County, AL

Gainesville, FL MSA
 Alachua County, FL
 Bradford County, FL

Galveston-Texas City, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Gary-Hammond, IN PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Glens Falls, NY MSA
 Warren County, NY
 Washington County, NY

Grand Forks, ND MSA
 Grand Forks County, ND

Grand Rapids, MI MSA
 Kent County, MI
 Ottawa County, MI

Great Falls, MT MSA
 Cascade County, MT

Greeley, CO MSA
 Weld County, CO

Green Bay, WI MSA
 Brown County, WI

Greensboro-Winston-Salem-High Point, NC MSA
 Davidson County, NC
 Davie County, NC
 Forsyth County, NC
 Guilford County, NC
 Randolph County, NC
 Stokes County, NC
 Yadkin County, NC

Greenville-Spartanburg, SC MSA
 Greenville County, SC
 Pickens County, SC
 Spartanburg County, SC

Hagerstown, MD MSA
 Washington County, MD

Hamilton-Middletown, OH PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA

Harrisburg-Lebanon-Carlisle, PA MSA
 Cumberland County, PA
 Dauphin County, PA
 Lebanon County, PA
 Perry County, PA

Hartford, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

Hartford-New Britain-Middletown, CT CMSA
 Bristol, CT PMSA
 Hartford County, CT (part)
 Bristol city, CT
 Burlington town, CT
 Litchfield County, CT (part)
 Plymouth town, CT
 Hartford, CT PMSA
 Hartford County, CT (part)
 Avon town, CT
 Bloomfield town, CT
 Canton town, CT
 East Granby town, CT
 East Hartford town, CT
 East Windsor town, CT
 Enfield town, CT
 Farmington town, CT
 Glastonbury town, CT
 Granby town, CT
 Hartford city, CT
 Manchester town, CT
 Marlborough town, CT

Hartford-New Britain-Middletown, CT CMSA—Con.
 Hartford, CT PMSA—Con.
 Hartford County, CT (part)—Con.
 Newington town, CT
 Rocky Hill town, CT
 Simsbury town, CT
 South Windsor town, CT
 Suffield town, CT
 West Hartford town, CT
 Wethersfield town, CT
 Windsor Locks town, CT
 Windsor town, CT
 Litchfield County, CT (part)
 Barkhamsted town, CT
 New Hartford town, CT
 East Haddam town, CT
 New London County, CT (part)
 Colchester borough, CT
 Colchester town balance, CT
 Tolland County, CT (part)
 Andover town, CT
 Bolton town, CT
 Columbia town, CT
 Coventry town, CT
 Ellington town, CT
 Hebron town, CT
 Somers town, CT
 Stafford Springs borough, CT
 Stafford town balance, CT
 Tolland town, CT
 Vernon town, CT
 Willington town, CT
 Middletown, CT PMSA
 Middlesex County, CT (part)
 Cromwell town, CT
 Durham town, CT
 East Hampton town, CT
 Haddam town, CT
 Middlefield town, CT
 Middletown city, CT
 Portland town, CT
 New Britain, CT PMSA
 Hartford County, CT (part)
 Berlin town, CT
 New Britain city, CT
 Plainville town, CT
 Southington town, CT

Hickory, NC MSA
 Alexander County, NC
 Burke County, NC
 Catawba County, NC

Honolulu, HI MSA
 Honolulu County, HI

Houma-Thibodaux, LA MSA
 Lafourche Parish, LA
 Terrebonne Parish, LA

Houston, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Houston-Galveston-Brazoria, TX CMSA
 Brazoria, TX PMSA
 Brazoria County, TX
 Galveston-Texas City, TX PMSA
 Galveston County, TX
 Houston, TX PMSA
 Fort Bend County, TX
 Harris County, TX
 Liberty County, TX
 Montgomery County, TX
 Waller County, TX

Huntington-Ashland, WV-KY-OH MSA

Boyd County, KY
Carter County, KY
Greenup County, KY
Lawrence County, OH
Cabell County, WV
Wayne County, WV

Huntsville, AL MSA

Madison County, AL

Indianapolis, IN MSA

Boone County, IN
Hamilton County, IN
Hancock County, IN
Hendricks County, IN
Johnson County, IN
Marion County, IN
Morgan County, IN
Shelby County, IN

Iowa City, IA MSA

Johnson County, IA

Jackson, MI MSA

Jackson County, MI

Jackson, MS MSA

Hinds County, MS
Madison County, MS
Rankin County, MS

Jackson, TN MSA

Madison County, TN

Jacksonville, FL MSA

Clay County, FL
Duval County, FL
Nassau County, FL
St. Johns County, FL

Jacksonville, NC MSA

Onslow County, NC

Janesville-Beloit, WI MSA

Rock County, WI

Jersey City, NJ PMSA—see New York-Northern**New Jersey-Long Island, NY-NJ-CT CMSA****Johnson City-Kingsport-Bristol, TN-VA MSA**

Carter County, TN
Hawkins County, TN
Sullivan County, TN
Unicoi County, TN
Washington County, TN
Scott County, VA
Washington County, VA
Bristol city, VA

Johnstown, PA MSA

Cambria County, PA
Somerset County, PA

Joliet, IL PMSA—see Chicago-Gary-Lake**County, IL-IN-WI CMSA****Joplin, MO MSA**

Jasper County, MO
Newton County, MO

Kalamazoo, MI MSA

Kalamazoo County, MI

Kankakee, IL MSA

Kankakee County, IL

Kansas City, MO-KS MSA

Johnson County, KS
Leavenworth County, KS
Miami County, KS
Wyandotte County, KS
Cass County, MO
Clay County, MO
Jackson County, MO
Lafayette County, MO
Platte County, MO
Ray County, MO

Kenosha, WI PMSA—see Chicago-Gary-Lake**County, IL-IN-WI CMSA****Killeen-Temple, TX MSA**

Bell County, TX
Coryell County, TX

Knoxville, TN MSA

Anderson County, TN
Blount County, TN
Grainger County, TN
Jefferson County, TN
Knox County, TN
Sevier County, TN
Union County, TN

Kokomo, IN MSA

Howard County, IN
Tipton County, IN

La Crosse, WI MSA

La Crosse County, WI

Lafayette, LA MSA

Lafayette Parish, LA
St. Martin Parish, LA

Lafayette-West Lafayette, IN MSA

Tippecanoe County, IN

Lake Charles, LA MSA

Calcasieu Parish, LA

Lake County, IL PMSA—see Chicago-Gary-**Lake County, IL-IN-WI CMSA****Lakeland-Winter Haven, FL MSA**

Polk County, FL

Lancaster, PA MSA

Lancaster County, PA

Lansing-East Lansing, MI MSA

Clinton County, MI
Eaton County, MI
Ingham County, MI

Laredo, TX MSA

Webb County, TX

Las Cruces, NM MSA

Dona Ana County, NM

Las Vegas, NV MSA

Clark County, NV

Lawrence, KS MSA

Douglas County, KS

Lawrence-Haverhill, MA-NH PMSA—see Boston-**Lawrence-Salem, MA-NH CMSA****Lawton, OK MSA**

Comanche County, OK

Lewiston-Auburn, ME MSA

Androscoggin County, ME (part)
Auburn city, ME
Greene town, ME
Lewiston city, ME
Lisbon town, ME
Mechanic Falls town, ME
Poland town, ME
Sabattus town, ME

Lexington-Fayette, KY MSA

Bourbon County, KY
Clark County, KY
Fayette County, KY
Jessamine County, KY
Scott County, KY
Woodford County, KY

Lima, OH MSA

Allen County, OH
Auglaize County, OH

Lincoln, NE MSA

Lancaster County, NE

Little Rock-North Little Rock, AR MSA

Faulkner County, AR
Lonoke County, AR
Pulaski County, AR
Saline County, AR

Longview-Marshall, TX MSA

Gregg County, TX
Harrison County, TX

Lorain-Elyria, OH PMSA—see Cleveland-**Akron-Lorain, OH CMSA****Los Angeles-Anaheim-Riverside, CA CMSA**

Anaheim-Santa Ana, CA PMSA
Orange County, CA
Los Angeles-Long Beach, CA PMSA
Los Angeles County, CA
Oxnard-Ventura, CA PMSA
Ventura County, CA
Riverside-San Bernardino, CA PMSA
Riverside County, CA
San Bernardino County, CA

Los Angeles-Long Beach, CA PMSA—see**Los Angeles-Anaheim-Riverside, CA CMSA****Louisville, KY-IN MSA**

Clark County, IN
Floyd County, IN
Harrison County, IN
Bullitt County, KY
Jefferson County, KY
Oldham County, KY
Shelby County, KY

Lowell, MA-NH PMSA—see Boston-Lawrence-**Salem, MA-NH CMSA****Lubbock, TX MSA**

Lubbock County, TX

Lynchburg, VA MSA

Amherst County, VA
Campbell County, VA
Lynchburg city, VA

Macon-Warner Robins, GA MSA

Bibb County, GA
Houston County, GA
Jones County, GA
Peach County, GA

Madison, WI MSA

Dane County, WI

Manchester, NH MSA

Hillsborough County, NH (part)
Bedford town, NH
Goffstown town, NH
Manchester city, NH
Merrimack County, NH (part)
Allenstown town, NH
Hooksett town, NH
Auburn town, NH
Candia town, NH

Mansfield, OH MSA

Richland County, OH

McAllen-Edinburg-Mission, TX MSA

Hidalgo County, TX

Medford, OR MSA

Jackson County, OR

Melbourne-Titusville-Palm Bay, FL MSA

Brevard County, FL

Memphis, TN-AR-MS MSA

Crittenden County, AR
De Soto County, MS
Shelby County, TN
Tipton County, TN

Merced, CA MSA

Merced County, CA

Miami-Fort Lauderdale, FL CMSA

Fort Lauderdale-Hollywood-Pompano
Beach, FL PMSA
Broward County, FL
Miami-Hialeah, FL PMSA
Dade County, FL

Miami-Hialeah, FL PMSA—see **Miami-Fort Lauderdale, FL CMSA**

Middlesex-Somerset-Hunterdon, NJ PMSA
—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Middletown, CT PMSA—see **Hartford-New Britain-Middletown, CT CMSA**

Midland, TX MSA
Midland County, TX

Milwaukee, WI PMSA—see **Milwaukee-Racine, WI CMSA**

Milwaukee-Racine, WI CMSA
Milwaukee, WI PMSA
Milwaukee County, WI
Ozaukee County, WI
Washington County, WI
Waukesha County, WI
Racine, WI PMSA
Racine County, WI

Minneapolis-St. Paul, MN-WI MSA
Anoka County, MN
Carver County, MN
Chisago County, MN
Dakota County, MN
Hennepin County, MN
Isanti County, MN
Ramsey County, MN
Scott County, MN
Washington County, MN
Wright County, MN
St. Croix County, WI

Mobile, AL MSA
Baldwin County, AL
Mobile County, AL

Modesto, CA MSA
Stanislaus County, CA

Monmouth-Ocean, NJ PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Monroe, LA MSA
Ouachita Parish, LA

Montgomery, AL MSA
Autauga County, AL
Elmore County, AL
Montgomery County, AL

Muncie, IN MSA
Delaware County, IN

Muskegon, MI MSA
Muskegon County, MI

Naples, FL MSA
Collier County, FL

Nashua, NH PMSA—see **Boston-Lawrence-Salem, MA-NH CMSA**

Nashville, TN MSA
Cheatham County, TN
Davidson County, TN
Dickson County, TN
Robertson County, TN
Rutherford County, TN
Sumner County, TN
Williamson County, TN
Wilson County, TN

Nassau-Suffolk, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

New Bedford, MA MSA
Bristol County, MA (part)
Acushnet town, MA
Dartmouth town, MA
Fairhaven town, MA
Freetown town, MA
New Bedford city, MA

New Bedford, MA MSA—Con.
Plymouth County, MA (part)
Marion town, MA
Mattapoisett town, MA
Rochester town, MA

New Britain, CT PMSA—see **Hartford-New Britain-Middletown, CT CMSA**

New Haven-Meriden, CT MSA
Middlesex County, CT (part)
Clinton town, CT
Killingworth town, CT
New Haven County, CT (part)
Bethany town, CT
Branford town, CT
Cheshire town, CT
East Haven town, CT
Guilford town, CT
Hamden town, CT
Madison town, CT
Meriden city, CT
New Haven city, CT
North Branford town, CT
North Haven town, CT
Orange town, CT
Wallingford town, CT
West Haven city, CT
Woodbridge town, CT

New London-Norwich, CT-RI MSA
New London County, CT (part)
Bozrah town, CT
East Lyme town, CT
Franklin town, CT
Griswold town balance, CT
Groton city, CT
Groton town balance, CT
Jewett City borough, CT
Ledyard town, CT
Lisbon town, CT
Montville town, CT
New London city, CT
North Stonington town, CT
Norwich city, CT
Old Lyme town, CT
Preston town, CT
Salem town, CT
Sprague town, CT
Stonington town, CT
Waterford town, CT
Windham County, CT (part)
Canterbury town, CT
Washington County, RI (part)
Hopkinton town, RI
Westerly town, RI

New Orleans, LA MSA
Jefferson Parish, LA
Orleans Parish, LA
St. Bernard Parish, LA
St. Charles Parish, LA
St. John the Baptist Parish, LA
St. Tammany Parish, LA

New York, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Bergen-Passaic, NJ PMSA
Bergen County, NJ
Passaic County, NJ
Bridgeport-Milford, CT PMSA
Fairfield County, CT (part)
Bridgeport city, CT
Easton town, CT
Fairfield town, CT
Monroe town, CT

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA—Con.
Bridgeport-Milford, CT PMSA—Con.
Fairfield County, CT (part)—Con.
Shelton city, CT
Stratford town, CT
Trumbull town, CT
New Haven County, CT (part)
Ansonia city, CT
Beacon Falls town, CT
Derby city, CT
Milford city, CT
Milford town balance, CT
Oxford town, CT
Seymour town, CT
Woodmont borough, CT
Danbury, CT PMSA
Fairfield County, CT (part)
Bethel town, CT
Brookfield town, CT
Danbury city, CT
New Fairfield town, CT
Newtown town, CT
Redding town, CT
Ridgefield town, CT
Sherman town, CT
Litchfield County, CT (part)
Bridgewater town, CT
New Milford town, CT
Jersey City, NJ PMSA
Hudson County, NJ
Middlesex-Somerset-Hunterdon, NJ PMSA
Hunterdon County, NJ
Middlesex County, NJ
Somerset County, NJ
Monmouth-Ocean, NJ PMSA
Monmouth County, NJ
Ocean County, NJ
Nassau-Suffolk, NY PMSA
Nassau County, NY
Suffolk County, NY
New York, NY PMSA
Bronx County, NY
Kings County, NY
New York County, NY
Putnam County, NY
Queens County, NY
Richmond County, NY
Rockland County, NY
Westchester County, NY
Newark, NJ PMSA
Essex County, NJ
Morris County, NJ
Sussex County, NJ
Union County, NJ
Norwalk, CT PMSA
Fairfield County, CT (part)
Norwalk city, CT
Weston town, CT
Westport town, CT
Wilton town, CT
Orange County, NY PMSA
Orange County, NY
Stamford, CT PMSA
Fairfield County, CT (part)
Darien town, CT
Greenwich town, CT
New Canaan town, CT
Stamford city, CT

Newark, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Niagara Falls, NY PMSA—see Buffalo-Niagara Falls, NY CMSA
Norfolk-Virginia Beach-Newport News, VA MSA
Gloucester County, VA
James City County, VA
York County, VA
Chesapeake city, VA
Hampton city, VA
Newport News city, VA
Norfolk city, VA
Poquoson city, VA
Portsmouth city, VA
Suffolk city, VA
Virginia Beach city, VA
Williamsburg city, VA
Norwalk, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Oakland, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
Ocala, FL MSA
Marion County, FL
Odessa, TX MSA
Ector County, TX
Oklahoma City, OK MSA
Canadian County, OK
Cleveland County, OK
Logan County, OK
McClain County, OK
Oklahoma County, OK
Pottawatomie County, OK
Olympia, WA MSA
Thurston County, WA
Omaha, NE-IA MSA
Pottawattamie County, IA
Douglas County, NE
Sarpy County, NE
Washington County, NE
Orange County, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Orlando, FL MSA
Orange County, FL
Osceola County, FL
Seminole County, FL
Owensboro, KY MSA
Davies County, KY
Oxnard-Ventura, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA
Panama City, FL MSA
Bay County, FL
Parkersburg-Marietta, WV-OH MSA
Washington County, OH
Wood County, WV
Pascagoula, MS MSA
Jackson County, MS
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA
Pensacola, FL MSA
Escambia County, FL
Santa Rosa County, FL
Peoria, IL MSA
Peoria County, IL
Tazewell County, IL
Woodford County, IL
Philadelphia, PA-NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA

Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA
Philadelphia, PA-NJ PMSA
Burlington County, NJ
Camden County, NJ
Gloucester County, NJ
Bucks County, PA
Chester County, PA
Delaware County, PA
Montgomery County, PA
Philadelphia County, PA
Trenton, NJ PMSA
Mercer County, NJ
Vineland-Millville-Bridgeton, NJ PMSA
Cumberland County, NJ
Wilmington, DE-NJ-MD PMSA
New Castle County, DE
Cecil County, MD
Salem County, NJ
Phoenix, AZ MSA
Maricopa County, AZ
Pine Bluff, AR MSA
Jefferson County, AR
Pittsburgh, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA
Pittsburgh-Beaver Valley, PA CMSA
Beaver County, PA PMSA
Beaver County, PA
Pittsburgh, PA PMSA
Allegheny County, PA
Fayette County, PA
Washington County, PA
Westmoreland County, PA
Pittsfield, MA MSA
Berkshire County, MA (part)
Cheshire town, MA
Dalton town, MA
Hinsdale town, MA
Lanesborough town, MA
Lee town, MA
Lenox town, MA
Pittsfield city, MA
Richmond town, MA
Stockbridge town, MA
Portland, ME MSA
Cumberland County, ME (part)
Cape Elizabeth town, ME
Cumberland town, ME
Falmouth town, ME
Freeport town, ME
Gorham town, ME
Gray town, ME
North Yarmouth town, ME
Portland city, ME
Raymond town, ME
Scarborough town, ME
South Portland city, ME
Standish town, ME
Westbrook city, ME
Windham town, ME
Yarmouth town, ME
York County, ME (part)
Buxton town, ME
Hollis town, ME
Old Orchard Beach town, ME
Portland, OR PMSA—see Portland-Vancouver, OR-WA CMSA

Portland-Vancouver, OR-WA CMSA
Portland, OR PMSA
Clackamas County, OR
Multnomah County, OR
Washington County, OR
Yamhill County, OR
Vancouver, WA PMSA
Clark County, WA
Portsmouth-Dover-Rochester, NH-ME MSA
York County, ME (part)
Berwick town, ME
Eliot town, ME
Kittery town, ME
North Berwick town, ME
Ogunquit town, ME
South Berwick town, ME
Wells town, ME
York town, ME
Rockingham County, NH (part)
Exeter town, NH
Greenland town, NH
Hampton town, NH
New Castle town, NH
Newfields town, NH
Newington town, NH
Newmarket town, NH
North Hampton town, NH
Portsmouth city, NH
Rye town, NH
Stratham town, NH
Strafford County, NH (part)
Barrington town, NH
Dover city, NH
Durham town, NH
Farmington town, NH
Lee town, NH
Madbury town, NH
Milton town, NH
Rochester city, NH
Rollinsford town, NH
Somersworth city, NH
Poughkeepsie, NY MSA
Dutchess County, NY
Providence, RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA
Providence-Pawtucket-Fall River, RI-MA CMSA
Fall River, MA-RI PMSA
Bristol County, MA (part)
Fall River city, MA
Somerset town, MA
Swansea town, MA
Westport town, MA
Newport County, RI (part)
Little Compton town, RI
Tiverton town, RI
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA
Bristol County, MA (part)
Attleboro city, MA
North Attleborough town, MA
Rehoboth town, MA
Seekonk town, MA
Norfolk County, MA (part)
Plainville town, MA
Worcester County, MA (part)
Blackstone town, MA
Millville town, MA
Providence County, RI (part)
Burrillville town, RI
Central Falls city, RI
Cumberland town, RI
Lincoln town, RI

Providence-Pawtucket-Fall River, RI-MA CMSA—Con.
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—Con.
Providence County, RI (part)—Con.
North Smithfield town, RI
Pawtucket city, RI
Smithfield town, RI
Woonsocket city, RI
Providence, RI PMSA
Bristol County, RI (part)
Barrington town, RI
Bristol town, RI
Warren town, RI
Kent County, RI (part)
Coventry town, RI
East Greenwich town, RI
Warwick city, RI
West Warwick town, RI
Newport County, RI (part)
Jamestown town, RI
Providence County, RI (part)
Cranston city, RI
East Providence city, RI
Foster town, RI
Glocester town, RI
Johnston town, RI
North Providence town, RI
Providence city, RI
Scituate town, RI
Washington County, RI (part)
Exeter town, RI
Narragansett town, RI
North Kingstown town, RI
Richmond town, RI
South Kingstown town, RI
Provo-Orem, UT MSA
Utah County, UT
Pueblo, CO MSA
Pueblo County, CO
Racine, WI PMSA—see Milwaukee-Racine, WI CMSA
Raleigh-Durham, NC MSA
Durham County, NC
Franklin County, NC
Orange County, NC
Wake County, NC
Rapid City, SD MSA
Pennington County, SD
Reading, PA MSA
Berks County, PA
Redding, CA MSA
Shasta County, CA
Reno, NV MSA
Washoe County, NV
Richland-Kennewick-Pasco, WA MSA
Benton County, WA
Franklin County, WA
Richmond-Petersburg, VA MSA
Charles City County, VA
Chesterfield County, VA
Dinwiddie County, VA
Goochland County, VA
Hanover County, VA
Henrico County, VA
New Kent County, VA
Powhatan County, VA
Prince George County, VA
Colonial Heights city, VA
Hopewell city, VA
Petersburg city, VA
Richmond city, VA

Riverside-San Bernardino, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA
Roanoke, VA MSA
Botetourt County, VA
Roanoke County, VA
Roanoke city, VA
Salem city, VA
Rochester, MN MSA
Olmsted County, MN
Rochester, NY MSA
Livingston County, NY
Monroe County, NY
Ontario County, NY
Orleans County, NY
Wayne County, NY
Rockford, IL MSA
Boone County, IL
Winnebago County, IL
Sacramento, CA MSA
El Dorado County, CA
Placer County, CA
Sacramento County, CA
Yolo County, CA
Saginaw-Bay City-Midland, MI MSA
Bay County, MI
Midland County, MI
Saginaw County, MI
St. Cloud, MN MSA
Benton County, MN
Sherburne County, MN
Stearns County, MN
St. Joseph, MO MSA
Buchanan County, MO
St. Louis, MO-IL MSA
Clinton County, IL
Jersey County, IL
Madison County, IL
Monroe County, IL
St. Clair County, IL
Franklin County, MO
Jefferson County, MO
St. Charles County, MO
St. Louis County, MO
St. Louis city, MO
Salem, OR MSA
Marion County, OR
Polk County, OR
Salem-Gloucester, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA
Salinas-Seaside-Monterey, CA MSA
Monterey County, CA
Salt Lake City-Ogden, UT MSA
Davis County, UT
Salt Lake County, UT
Weber County, UT
San Angelo, TX MSA
Tom Green County, TX
San Antonio, TX MSA
Bexar County, TX
Comal County, TX
Guadalupe County, TX
San Diego, CA MSA
San Diego County, CA
San Francisco, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
San Francisco-Oakland-San Jose, CA CMSA
Oakland, CA PMSA
Alameda County, CA
Contra Costa County, CA

San Francisco-Oakland-San Jose, CA CMSA—Con.
San Francisco, CA PMSA
Marin County, CA
San Francisco County, CA
San Mateo County, CA
San Jose, CA PMSA
Santa Clara County, CA
Santa Cruz, CA PMSA
Santa Cruz County, CA
Santa Rosa-Petaluma, CA PMSA
Sonoma County, CA
Vallejo-Fairfield-Napa, CA PMSA
Napa County, CA
Solano County, CA
San Jose, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
Santa Barbara-Santa Maria-Lompoc, CA MSA
Santa Barbara County, CA
Santa Cruz, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
Santa Fe, NM MSA
Los Alamos County, NM
Santa Fe County, NM
Santa Rosa-Petaluma, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
Sarasota, FL MSA
Sarasota County, FL
Savannah, GA MSA
Chatham County, GA
Effingham County, GA
Scranton-Wilkes-Barre, PA MSA
Columbia County, PA
Lackawanna County, PA
Luzerne County, PA
Monroe County, PA
Wyoming County, PA
Seattle, WA PMSA—see Seattle-Tacoma, WA CMSA
Seattle-Tacoma, WA CMSA
Seattle, WA PMSA
King County, WA
Snohomish County, WA
Tacoma, WA PMSA
Pierce County, WA
Sharon, PA MSA
Mercer County, PA
Sheboygan, WI MSA
Sheboygan County, WI
Sherman-Denison, TX MSA
Grayson County, TX
Shreveport, LA MSA
Bossier Parish, LA
Caddo Parish, LA
Sioux City, IA-NE MSA
Woodbury County, IA
Dakota County, NE
Sioux Falls, SD MSA
Minnehaha County, SD
South Bend-Mishawaka, IN MSA
St. Joseph County, IN
Spokane, WA MSA
Spokane County, WA
Springfield, IL MSA
Menard County, IL
Sangamon County, IL
Springfield, MO MSA
Christian County, MO
Greene County, MO

Springfield, MA MSA

Hampden County, MA (part)
 Agawam town, MA
 Chicopee city, MA
 East Longmeadow town, MA
 Hampden town, MA
 Holyoke city, MA
 Longmeadow town, MA
 Ludlow town, MA
 Monson town, MA
 Montgomery town, MA
 Palmer town, MA
 Russell town, MA
 Southwick town, MA
 Springfield city, MA
 Westfield city, MA
 West Springfield town, MA
 Wilbraham town, MA

Hampshire County, MA (part)

Belchertown town, MA
 Easthampton town, MA
 Granby town, MA
 Huntington town, MA
 Northampton city, MA
 Southampton town, MA
 South Hadley town, MA

Stamford, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**State College, PA MSA**

Centre County, PA

Steubenville-Weirton, OH-WV MSA

Jefferson County, OH
 Brooke County, WV
 Hancock County, WV

Stockton, CA MSA

San Joaquin County, CA

Syracuse, NY MSA

Madison County, NY
 Onondaga County, NY
 Oswego County, NY

Tacoma, WA PMSA—see Seattle-Tacoma, WA CMSA**Tallahassee, FL MSA**

Gadsden County, FL
 Leon County, FL

Tampa-St. Petersburg-Clearwater, FL MSA

Hernando County, FL
 Hillsborough County, FL
 Pasco County, FL
 Pinellas County, FL

Terre Haute, IN MSA

Clay County, IN
 Vigo County, IN

Texarkana, TX-Texarkana, AR MSA

Miller County, AR
 Bowie County, TX

Toledo, OH MSA

Fulton County, OH
 Lucas County, OH
 Wood County, OH

Topeka, KS MSA

Shawnee County, KS

Trenton, NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**Tucson, AZ MSA**

Pima County, AZ

Tulsa, OK MSA

Creek County, OK
 Osage County, OK
 Rogers County, OK
 Tulsa County, OK
 Wagoner County, OK

Tuscaloosa, AL MSA

Tuscaloosa County, AL

Tyler, TX MSA

Smith County, TX

Utica-Rome, NY MSA

Herkimer County, NY
 Oneida County, NY

Vallejo-Fairfield-Napa, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA**Vancouver, WA PMSA—see Portland-Vancouver, OR-WA CMSA****Victoria, TX MSA**

Victoria County, TX

Vineland-Millville-Bridgeton, NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**Visalia-Tulare-Porterville, CA MSA**

Tulare County, CA

Waco, TX MSA

McLennan County, TX

Washington, DC-MD-VA MSA

District of Columbia, DC
 Calvert County, MD
 Charles County, MD
 Frederick County, MD
 Montgomery County, MD
 Prince George's County, MD
 Arlington County, VA
 Fairfax County, VA
 Loudoun County, VA
 Prince William County, VA
 Stafford County, VA
 Alexandria city, VA
 Fairfax city, VA
 Falls Church city, VA
 Manassas city, VA
 Manassas Park city, VA

Waterbury, CT MSA

Litchfield County, CT (part)
 Bethlehem town, CT
 Thomaston town, CT
 Watertown town, CT
 Woodbury town, CT
 New Haven County, CT (part)
 Middlebury town, CT
 Naugatuck borough, CT
 Prospect town, CT
 Southbury town, CT
 Waterbury city, CT
 Wolcott town, CT

Waterloo-Cedar Falls, IA MSA

Black Hawk County, IA
 Bremer County, IA

Wausau, WI MSA

Marathon County, WI

West Palm Beach-Boca Raton-DeLray Beach, FL MSA

Palm Beach County, FL

Wheeling, WV-OH MSA

Belmont County, OH
 Marshall County, WV
 Ohio County, WV

Wichita, KS MSA

Butler County, KS
 Harvey County, KS
 Sedgwick County, KS

Wichita Falls, TX MSA

Wichita County, TX

Williamsport, PA MSA

Lycoming County, PA

Wilmington, DE-NJ-MD PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA**Wilmington, NC MSA**

New Hanover County, NC

Worcester, MA MSA

Worcester County, MA (part)
 Auburn town, MA

Barre town, MA
 Boylston town, MA
 Brookfield town, MA
 Charlton town, MA
 Clinton town, MA
 Douglas town, MA
 Dudley town, MA
 East Brookfield town, MA
 Grafton town, MA
 Holden town, MA
 Leicester town, MA
 Millbury town, MA
 Northborough town, MA
 Northbridge town, MA
 North Brookfield town, MA
 Oxford town, MA
 Paxton town, MA
 Princeton town, MA
 Rutland town, MA
 Shrewsbury town, MA
 Spencer town, MA
 Sterling town, MA
 Sutton town, MA
 Uxbridge town, MA
 Webster town, MA
 Westborough town, MA
 West Boylston town, MA
 Worcester city, MA

Yakima, WA MSA

Yakima County, WA

York, PA MSA

Adams County, PA
 York County, PA

Youngstown-Warren, OH MSA

Mahoning County, OH
 Trumbull County, OH

Yuba City, CA MSA

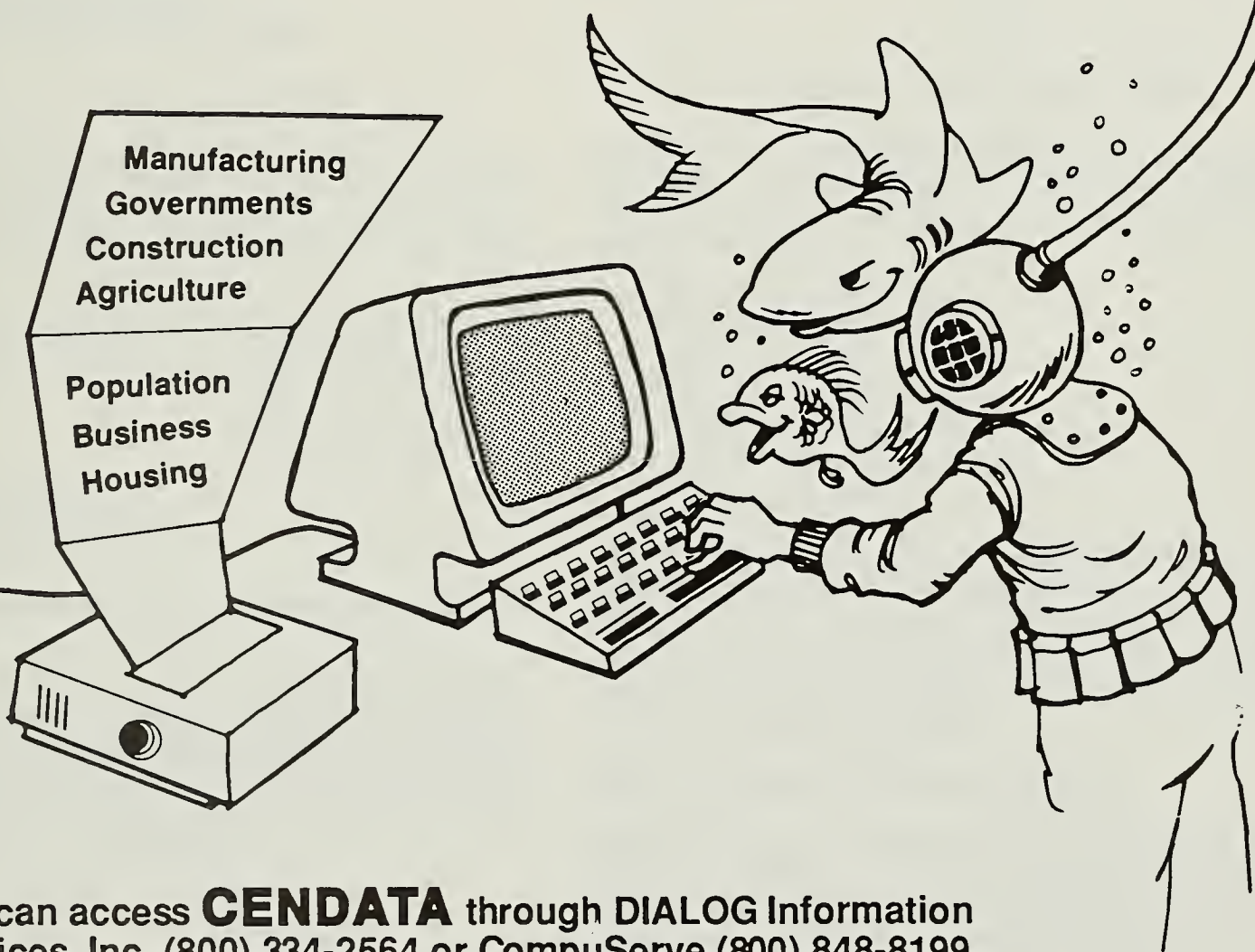
Sutter County, CA
 Yuba County, CA

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PUBLICATION PROGRAM

1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

- Printed reports [P]
- CD-ROM [C]
- Computer tape [T]
- Highlights online [+]

Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P]

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
- Number of employees
- Payroll
- Hours worked
- Value of construction work done, by type of structure
- Selected operating costs

Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

OTHER ECONOMIC CENSUSES REPORTS

The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

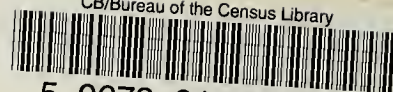
- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233. If you have any questions, call Census Customer Services 1-(301)-763-4100.

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